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Top Skills

Job Scheduling
Cron
SQL

Languages

Persian (Native or Bilingual)
English (Professional Working)
Arabic (Elementary)

Certifications

1 Million Prompters

Publications

Rational versus Emotional Reasoning in a Realistic Multi-Objective Environment
SQL or Algernon Queries

Hossein Mayboudi

Senior Backend Engineer | TypeScript, Node.js, PostgreSQL, Effect-TS | Distributed Systems, Real-Time Platforms, API Architecture, Observability, CI/CD | Open to Remote Opportunities
Iran

Summary

I am a passionate senior software engineer with a strong background in microservice architecture and containerization, particularly using TypeScript. My expertise includes implementing the twelve factors of apps, focusing on code guidelines, dependency management, configurability, service design, automation, integration management, containerization standards, testing, process engineering, error handling, and log tracing. I adhere to clean architecture principles and prioritize modularity, maintainability, and SOLID principles, following Agile SDLC methodology.

As a leader, I excel in driving high-performing teams through effective communication and clarity. I coordinate the development of infrastructure and code, project management, and meeting the project's requirements. I empower team members to take responsibility and align their actions with the project's visions and missions. To optimize self-awareness, I deploy tracking software.

My development approach emphasizes automation using git hooks, coding conventions, documentation, code generation, conventional commit messages, lint-ing, formatting, testing, vulnerability checking, static and dynamic code analysis, and container security best practices. I prioritize reconfigurability and provisioning of services and conduct thorough code reviews. My preferred development, running, and testing environment is docker-compose, ensuring the health check of each service.

To maintain project timelines, I carefully manage the number and timing of meetings and define issue labels and statuses. My meticulous approach ensures long-term project success.

Overall, I bring a wealth of technical expertise and leadership skills to my role as a senior software engineer, combining a focus on cutting-

edge technologies with effective project management and team coordination.

Experience

APC

Senior Software Engineer

January 2026 - Present (11 months)

Tehran, Tehran Province, Iran

- Architected and developed a TypeScript/Effect mono-repo for a financial trading/ordermanagement platform, covering web, domain, master scheduler, and distributed agent services.
- Built backend domain services with Effect, Drizzle ORM, PostgreSQL, Effect SQL, typed error handling, dependency layers, queues, schedules, and integration tests.
- Integrated broker/trading systems including Tadbir, Ershan, Mofid and Exir, using Light-streamer and Socket.IO for real-time open-order updates and broker session handling.
- Developed master/agent workflows for broker users, orders, portfolios, open orders, sessions, turnover, and scheduled synchronization jobs.
- Built a Next.js admin/user portal with Better Auth, next-intl, TanStack Table, shadcn/Radix UI, Tailwind CSS, CSV export APIs, and role-based operational dashboards.
- Implemented observability and deployment infrastructure using Docker Compose, OpenTelemetry, Grafana LGTM stack, Prometheus, Loki, Tempo, and health-check endpoints.
- Designed PostgreSQL schemas and migrations with Drizzle, supporting trading entities such as brokers, users, sessions, ISINs, orders, portfolios, turnover, and monitoring data.

nizek

1 year 5 months

Backend Chapter Lead

August 2024 - October 2025 (1 year 3 months)

Technical Expertise & Achievements:

- Backend Mastery: Extensive experience in Node.js (ExpressJS, NestJS), TypeScript, JavaScript, and backend architecture (REST APIs, microservices concepts).

- Database Proficiency: Deep optimization skills in MySQL (query tuning, schema design), Redis (caching), and Elasticsearch. Proficient with ORMs (Prisma, Knex) and raw SQL.
- DevOps & Infrastructure: Hands-on with deployment (PM2, ArgoCD, DigitalOcean), monitoring (Prometheus, Grafana, BetterStack), and basic infrastructure management (Nginx).
- Integration Specialist: Proven ability to design, implement, and maintain complex integrations with diverse external services (payments, communications, e-commerce platforms).
- Performance Focus: Consistently identified and resolved performance bottlenecks across databases, APIs, and application logic.
- Legacy System Modernization: Successfully navigated and improved large, complex legacy codebases, implementing new features and stability improvements.
- Process Improvement: As Backend Chapter Lead, initiated a code quality initiative using ESLint and SonarQube, establishing a cognitive complexity metric to objectively assess code maintainability and guide refactoring priorities.
- Agile Practices: Active participant in Scrum/Kanban workflows (daily stand-ups, sprint planning, Jira task management).

I thrive in environments where I can tackle complex technical challenges, optimize system performance, and contribute to building robust, scalable software solutions. Seeking opportunities to leverage my backend expertise and passion for system architecture in impactful projects.

Senior Backend Developer

June 2024 - October 2025 (1 year 5 months)

At Nizek, I contributed to three flagship products in dynamic, cross-functional teams following Agile/Scrum methodologies.

Key Projects & Contributions:

1- Care (Legacy E-commerce Platform - Node.js/ExpressJS):
- Maintained and evolved a critical legacy system built on ExpressJS with pure HTML/CSS/JS admin panel.
- Managed full deployment lifecycle (PM2, Git auto-deploy, Nginx).
- Optimized MySQL database performance through direct SQL and Prisma query refinement.

- Enhanced system stability and performance via log analysis (BetterStack) and targeted API updates.
- Ensured high availability and rapid response to production issues.

2- Endura (Complex E-commerce Platform - Node.js/ExpressJS):
- Spearheaded maintenance and feature development for a high-traffic sports goods platform.
- Managed sophisticated architecture (MySQL, Redis, Elasticsearch) with layered repository patterns (Prisma, Knex, direct).
- Integrated and maintained critical third-party services: multiple local payment gateways, Resend email, diverse SMS providers, and a complex Shopify synchronization module.
- Implemented and monitored system health using Prometheus/Grafana and BetterStack logging.
- Drove performance improvements through Elasticsearch query optimization and MySQL tuning.
- Developed new providers for payment systems and monitoring event pipelines.

3- Park (Modern SaaS Platform - NestJS/TypeScript):
- Contributed to a newer, well-structured NestJS/TypeScript application.
- Optimized complex MySQL and Redis queries, significantly enhancing performance under high load.
- Implemented TTL-based caching strategies for API endpoints.
- Integrated third-party services (Resend email, local SMS providers).
- Updated existing APIs and developed new endpoints for external integrations.
- Leveraged DigitalOcean infrastructure for deployment and management.

AlphaCloud
Backend Team Lead
September 2021 - February 2024 (2 years 6 months)
Tehran Province, Iran

Implemented the coding conventions based on the best practices of Google and Uber Go Style PGLs.
Enforced conversational commit messages and controlled pre-commit actions using git hooks, including formatting protobufs, generating code, fixing and formatting code, and optimizing shell scripts.
Developed and implemented GitLab CI/CD and GitHub Actions, reducing running time from 2 hours to 1 hour.

Created application Grafana dashboards provisioning using jsonnet, enhancing visualization and monitoring capabilities.
Utilized buf build with customized protobufs to automatically generate documentation, Swagger, and source codes in Go and TypeScript with input validation support.
Applied the go build tag system to meet project requirements.
Implemented automatic database migration for CockroachDB, ensuring seamless updates.
Applied the clean architecture approach, utilizing Go middleware, to enhance code structure and maintainability.
Designed and implemented a comprehensive approach to unit and integration testing, achieving over 95% coverage for the project.
Implemented end-to-end tests using Grafana K6 in TypeScript, with coverage exceeding 95% for both gRPC and HTTP endpoints.
Managed tools as code and adopted documentation and infrastructure as code principles.
Enforced versioning and controlled breaking changes for services by implementing robust endpoint versioning practices.
Applied best practices in server-side and client-side development.
Applied tools for the building process in local, Docker, and containerization environments.
Applied microservices with Go programming language.
Automated streamlined workflows for local and remote development on both server-side and client-side.
Developed and executed software routines for the team based on the Google Angular team.
Researched and developed new technologies with the Go programming language.

PlayPod | Cloud Gaming Platform for eSports

2 years 10 months

Backend Team Lead

May 2021 - February 2024 (2 years 10 months)

Tehran Province, Iran

I am an experienced developer proficient in using Next.js framework for frontend development. I have expertise in utilizing GitLab CI/CD templates and Husky to control commit messages and implement conversational commit messages. I ensure code quality and consistency by applying lint-staged with Markdownlint, Stylelint, and Jest for pre-commit checks. Additionally, I perform

pre-push checks including auditing, Lighthouse CI, linting for code, SCSS, and Markdown, type checking, and building.

I am skilled in provisioning Visual Studio Code and implementing development container environments. Furthermore, I have authored two comprehensive documentation pieces on CSS naming and file naming conventions to promote standardized practices. I have developed project structures that prioritize clarity, modularity, and testability.

My proficiency in TypeScript allows me to enforce strong typing throughout the project, enhancing code quality and reducing errors. I have customized the Redux toolkit to seamlessly integrate HTTP and gRPC calls without code modification, providing full type support.

In terms of testing, I have developed a module for Playwright that enables easy switching between client-side and server-side rendering during testing. I have customized Redux effectively and utilized ESLint and Prettier in conjunction to ensure code quality and formatting consistency. For testing, I leverage Jest for unit testing, including HTML content changes, and Playwright for end-to-end testing, including design and CSS changes. I also utilize Lighthouse CI, an automated tool, to improve web application performance, quality, and correctness.

I have extensive experience customizing Next.js and TypeScript configurations to align with project requirements. Moreover, I have defined and automated the process of commit and merge requests using both local and server-side approaches. I am proficient in managing Docker Compose to run necessary services with their configurations.

Backend Team Lead

May 2021 - April 2022 (1 year)

Tehran Province, Iran

In my role, I actively streamlined and optimized business processes related to software development, resulting in improved cost efficiency and productivity. I achieved this by developing comprehensive processes and creating detailed documentation for each aspect of software development. Additionally, I designed templates that standardized and expedited various processes.

I spearheaded the development of processes and templates for meetings, ensuring clear reporting and scheduling. These processes encompassed

important elements such as branching, developer system setup, labelling, CI pipelines, document versioning, and release versioning. By implementing these routines, I successfully facilitated change requests, release deployments, issue creation (planned and unplanned), bug reporting, issue workflow, issue blocking and unblocking, merge requests, code review and merging, quality control during sprints, and backend and frontend releases. I also established an agile process for the software development life cycle, including tagging.

Furthermore, I authored advertising materials and created templates for bug reports, meetings, issue tracking, and release processes. These templates streamlined communication and documentation, ensuring consistency and efficiency across the team.

Throughout my responsibilities, I actively collaborated with team members, conveyed instructions, and presented findings and recommendations. I demonstrated strong organizational skills by coordinating and facilitating the execution of processes. Moreover, I continuously sought opportunities to improve and enhance the existing processes, resulting in increased productivity and operational effectiveness.

In summary, my active involvement in business process re-engineering and developing comprehensive processes and templates significantly strengthened the software development workflow, optimized resource utilization, and fostered effective communication and collaboration within the team.

Melobit

5 years 7 months

Co-Founder

January 2015 - July 2020 (5 years 7 months)

Tehran Province, Iran

Identify Market Opportunities:

I actively researched and identified market opportunities within the music industry or related fields.
This involved analyzing market trends, customer needs, and competitive landscape to identify gaps or areas for innovation.
I worked closely with the team to translate these opportunities into actionable strategies and product ideas.

Direct Marketing and Promotion:

I was involved in developing and implementing marketing and promotional strategies to increase brand awareness and drive user acquisition.
This included defining target audiences, crafting messaging, and selecting appropriate marketing channels and tactics.
I collaborated with marketing and creative teams to execute campaigns and measure their effectiveness.

Develop Financial Estimates:

I took part in developing financial estimates and projections for the business.
This involved analyzing revenue streams, costs, and potential risks to create realistic financial models and forecasts.
I worked closely with the finance team to ensure accurate financial planning and budgeting.

Create Business Plans and Documents:

I contributed to the creation of comprehensive business plans and related documents.
This included outlining the company's vision, mission, and strategies, as well as defining target markets, competitive advantages, and growth plans.
I collaborated with the team to ensure alignment and clarity in the business planning process.

Build and Lead Teams:

As a co-founder, I played a pivotal role in building and leading teams within the organization.
This involved recruiting and hiring talented individuals who aligned with the company's vision and values.
I provided leadership, guidance, and mentorship to team members, fostering a collaborative and high-performing work culture.

Backend Team Lead
January 2015 - July 2020 (5 years 7 months)
Tehran Province, Iran

Research and Development of New Technologies:

I actively researched emerging technologies, frameworks, and tools relevant to the software development process.
I explored innovative solutions and evaluated their potential to enhance the company's products and services.
I contributed to the adoption and integration of new technologies into the development workflow.
Programming Guideline and Clean Code:

I followed programming guidelines, particularly based on Google Angular, to ensure consistent and maintainable code.
I adhered to best practices and coding standards to write clean, readable, and efficient code.
I focused on modular and reusable code design to facilitate scalability and maintainability.

Build Systems and Automation:

I utilized build systems such as DevSpace, Bazel, and Tilt to automate and streamline software development workflows.
I optimized build processes to improve efficiency, reduce errors, and enhance productivity.
I leveraged automation tools for tasks like testing, deployment, and continuous integration/continuous deployment (CI/CD).

Kubernetes Development and Microservices:

I applied Kubernetes for container orchestration and management in the development process.
I developed and deployed microservices architecture, leveraging the scalability and flexibility it offers.
I ensured proper communication and integration among microservices to create a cohesive and robust system.

Redux, NestJS, and Mono Repository:

I utilized Redux on the server-side for state management in the application.
I worked with the NestJS framework for building scalable and modular server-side applications.
I implemented a mono repository approach to manage multiple related projects within a single repository, promoting code reuse and collaboration.

ModernPal
iOS Developer
June 2015 - October 2016 (1 year 5 months)
Tehran Province, Iran

Design and Build iOS Applications:

I played a key role in designing and developing iOS applications, leveraging my expertise in iOS development frameworks, programming languages, and best practices.
I collaborated with cross-functional teams, including designers and product managers, to define and design new features for the applications.
I actively participated in the entire software development lifecycle, from conceptualization and architecture design to coding, testing, and deployment.

Unit Testing and Bug Fixing:

I conducted thorough unit testing of the codebase to ensure robustness and reliability of the applications.
I paid attention to edge cases, usability, and overall performance to deliver high-quality software products.
I worked on bug fixing, identifying and resolving issues to improve application stability and user experience.

Continuous Learning and Technological Advancements:

I stayed up-to-date with the latest trends and advancements in iOS development.
I continuously explored and evaluated new technologies, frameworks, and tools to enhance the efficiency and effectiveness of the development process.
I actively implemented new technologies and practices where appropriate, with the aim of maximizing development efficiency and staying at the forefront of the industry.

During my time at ModernPal, I contributed to the design, development, and testing of advanced iOS applications. I collaborated with cross-functional teams, addressed bugs and performance issues, and remained proactive in adopting new technologies. By delivering high-quality software products and staying updated with industry advancements, I played a vital role in maximizing development efficiency and ensuring the success of the projects.

Hubco Network

1 year 10 months

Software Engineer of Mobile Applications

August 2014 - September 2014 (2 months)

Tehran Province, Iran

I was involved in designing and implementing the underlying architecture for software programs, ensuring they were robust and scalable. I also oversaw the work of other software engineers, providing guidance and reviewing their code. Additionally, I acted as a mentor for new and lower-level developers, helping them improve their skills and fostering a collaborative team environment. In 2014, I specifically focused on mobile application development, where I continued to contribute to architectural design, team oversight, and mentorship. Overall, my experience involved a combination of technical expertise, leadership, and mentorship, contributing to the successful delivery of software projects and the growth of the development teams I worked with.

Backend Team Lead

December 2012 - September 2014 (1 year 10 months)

Tehran Province, Iran

Underlying Architecture for the Software Program:

I was responsible for designing and developing the underlying architecture of the software program.
This involved creating a robust and scalable foundation that supported the desired functionality and performance of the software.
I worked closely with stakeholders to understand their requirements and translate them into a well-structured software architecture.
I ensured that the architecture adhered to best practices, industry standards, and met the project's goals and objectives.

Oversight of Software Engineers:

In addition to my individual software engineering tasks, I provided oversight and guidance to other software engineers working on the project.
I monitored their work progress, reviewed their code, and provided feedback to ensure high-quality deliverables.
I collaborated with team members to coordinate efforts, resolve technical challenges, and ensure timely completion of project milestones.

Mentorship and Team Development:

I acted as a mentor to new or lower-level software developers and programmers.
I provided guidance, support, and knowledge transfer to help them grow their skills and excel in their roles.
I fostered a collaborative and learning-oriented environment where team members could seek assistance and enhance their expertise.
I actively contributed to the professional development of the development team, sharing industry insights, best practices, and new technologies.

Throughout my tenure as a Software Engineer, I played a crucial role in establishing the software program's architecture, overseeing the work of other software engineers, and serving as a mentor to the team. By providing technical leadership, guidance, and support, I contributed to the success of the software development project and the growth of the development team.

Office of Technical Support, EIRIB
Software Engineer
August 2011 - December 2012 (1 year 5 months)
Tehran Province, Iran

I was involved in various responsibilities related to integration architecture, technical feasibility, and bid management. Here are the details of my work during this period:

Expert Desk Integration Architecture and Enterprise-wide Architecture:

Worked on the integration architecture of the Expert Desk system, which involved integrating various components and systems within the organization.
Collaborated with stakeholders to design and implement an enterprise-wide architecture that facilitated seamless communication and data exchange between different systems.
Ensured that the integration architecture aligned with the organization's goals and requirements, promoting efficient workflows and information sharing.

Technical Feasibility of the Website:

Assessed the technical feasibility of website projects undertaken by the Office of Technical Support.

Conducted analysis and evaluation of technical requirements, resources, and constraints to determine the viability of proposed website development.
Provided recommendations and insights to stakeholders based on the technical feasibility analysis, helping them make informed decisions.

Winning Bid Announcements:

Participated in the bid management process for system development projects.
Assisted in evaluating bids received for system development projects, considering technical capabilities, cost-effectiveness, and adherence to requirements.
Collaborated with the team to hold and announce the winning bids for the system development projects.

Throughout my tenure as a Software Engineer at the Office of Technical Support, EIRIB, I contributed to integration architecture, assessed technical feasibility for website projects, and played a role in the bid management process. My focus was on ensuring seamless integration, evaluating technical viability, and facilitating the selection of suitable vendors for system development projects.

Self-employed
Web Site Designer and Developer
February 2011 - May 2012 (1 year 4 months)
Tehran Province, Iran

Internet Finder Website:

Designed and implemented a new version of the Internet Finder website, located at http://www.internetfinder.ir.
Collaborated with clients to understand and document their website requirements.
Prepared mock-ups and storyboards to visualize the desired website layout and functionality.
Developed the website architecture, considering hardware and software requirements.
Sourced, selected, and organized information to be included on the website.
Designed the appearance, layout, and flow of the website, ensuring an engaging user experience.
Created and optimized website content using various graphics, databases, animation, and other software.

Developed web-related code, including HTML, CSS, and scripting languages.
Conducted thorough testing to ensure website functionality, security, and quality control.

Tour Gallery Website:

Designed and implemented the Tour Gallery website, accessible at http://www.tourgallery.ir.
Applied similar processes as mentioned above for the development of this specific website.

Search Engine Optimization (SEO) and Visibility (SEV):

Improved SEO and SEV for both the Internet Finder and Tour Gallery websites.
Employed strategies to enhance the websites' visibility in search engine rankings and increase organic traffic.
Implemented techniques such as keyword optimization, meta tag optimization, and content optimization.

Client Consultation and Research:

Consulted with clients to understand their website requirements and goals.
Conducted research and evaluation of interactive media software products to identify suitable tools for website development.
Stayed informed about industry trends and best practices in website design and development.

Team Coordination:

Led and coordinated multidisciplinary teams for projects, including graphic designers, content creators, and developers.
Collaborated with team members to ensure the successful completion of website projects.

MajidOnline – Abshar Group
JavaScript (jQuery) Teacher
December 2011 - March 2012 (4 months)
Tehran Province, Iran

As the jQuery teacher, my primary responsibility was to deliver instruction on JavaScript programming with a specific focus on the jQuery library. I provided comprehensive lessons on the fundamentals of JavaScript and how to effectively utilize the jQuery library to enhance web development.

In the class, I covered a range of topics related to jQuery, including DOM manipulation, event handling, AJAX interactions, and animation effects. I designed and delivered lessons that included theoretical explanations, practical examples, and hands-on exercises to ensure that students gained a solid understanding of jQuery and its application in web development.

Additionally, I provided guidance and support to students during their learning process. I answered questions, offered clarifications, and provided feedback on their code and assignments. I fostered a collaborative and interactive learning environment to encourage active participation and critical thinking.

Throughout the course, I utilized my expertise in JavaScript and jQuery to demonstrate best practices and effective coding techniques. I shared real-world examples and practical scenarios to help students understand how to apply jQuery in web development projects.

As a JavaScript (jQuery) Teacher, I was dedicated to equipping students with the knowledge and skills necessary to utilize jQuery effectively in their web development endeavors. I facilitated a dynamic and engaging learning experience that empowered students to enhance their proficiency in JavaScript and jQuery.

Overall, my role at MajidOnline - Abshar Group involved teaching a jQuery class, delivering comprehensive lessons on JavaScript programming with a focus on the jQuery library, providing guidance and support to students, and fostering an interactive learning environment.

Eastern Mediterranean University

Webmaster

September 2009 - February 2010 (6 months)

Famagusta, Turkey (T.R.N.C.)

I held the position specifically for the General Education department.

My primary responsibility was to design and implement a new website for the General Education department, as well as its affiliated faculty and

departments. The website was built using Joomla Content Management System (CMS), which provided a flexible and efficient platform for managing and organizing content.

Using Joomla, I created a visually appealing and user-friendly website that effectively showcased the information, programs, faculty members, and other relevant content of the General Education department. I ensured that the website design was in line with the branding and identity of the department and provided a seamless user experience.

As a Webmaster, I collaborated with stakeholders from the General Education department to gather requirements and understand their needs. I incorporated their feedback into the design process, ensuring that the website met their expectations and effectively communicated the department's mission and goals.

In addition to designing and implementing the website, I was responsible for maintaining and updating its content. This involved regularly adding new information, making necessary changes, and ensuring that the website remained up-to-date and relevant.

Throughout the project, I followed best practices in web design, usability, and accessibility to create a professional and functional website for the General Education department. I also ensured that the website was responsive and compatible with different devices and browsers.

Overall, as a Webmaster at Eastern Mediterranean University, I focused on designing and implementing a new website for the General Education department, its faculty, and departments. Using Joomla as the CMS, I created a visually appealing and user-friendly website that effectively conveyed the department's information and served its needs.

Eastern Mediterranean University

Webmaster

September 2008 - February 2009 (6 months)

Famagusta, Turkey (T.R.N.C.)

I was responsible for managing the web presence of the Faculty of Architecture.

My primary tasks revolved around designing and implementing new websites for various purposes. Firstly, I designed and implemented a new website for the Faculty of Architecture and its departments. This involved creating a visually appealing and user-friendly interface that effectively showcased the faculty's information, programs, faculty members, and other relevant content.

Additionally, I designed and implemented a new website specifically dedicated to the university's photography archive. This website served as a platform to showcase and preserve a collection of photographs related to the university or the Faculty of Architecture. I ensured that the website provided an intuitive browsing experience and allowed users to search, view, and interact with the photographs.

Furthermore, I was responsible for designing and implementing a new website for the faculty's newsletter. This website served as a hub for sharing news, updates, and articles related to the faculty and its activities. I created a layout that facilitated easy navigation, organized content effectively, and allowed users to access past issues of the newsletter.

As a Webmaster, I ensured that the websites I designed and implemented were technically sound, visually appealing, and aligned with the branding and identity of the Faculty of Architecture. I collaborated with stakeholders to gather requirements, incorporated their feedback into the design process, and ensured timely delivery of the websites.

Overall, as a Webmaster at Eastern Mediterranean University, I played a vital role in designing and implementing new websites for the Faculty of Architecture, its departments, the photography archive, and the newsletter. My focus was on creating visually appealing, user-friendly, and informative websites that effectively served their respective purposes.

Eastern Mediterranean University
10 months

Post-Secondary Teaching Assistant
March 2008 - June 2008 (4 months)
Famagusta, Turkey (T.R.N.C.)

I focused on Computer Networks and Modern Programming Platforms.

In my role, I was responsible for organizing reference materials, visual aids, and other necessary materials for the university professors' lectures. I ensured that all required resources were readily available to support effective teaching.

Additionally, I conducted seminars, discussion groups, and laboratory sessions to complement the lectures and provide students with practical learning experiences. These interactive sessions aimed to enhance their understanding of the subject matter and encourage active participation.

Furthermore, I played a key role in assisting with the preparation and administration of examinations. This included tasks such as setting up the exam environment, distributing and collecting exam papers, and ensuring a fair and organized examination process.

Grading examinations, term papers, and laboratory reports was another important aspect of my role. I carefully assessed the students' work, provided constructive feedback, and assigned appropriate grades based on the established evaluation criteria.

Overall, as a Post-Secondary Teaching Assistant at Eastern Mediterranean University, I actively contributed to the teaching and learning process by organizing materials, conducting interactive sessions, assisting with examinations, and grading students' work. My focus was on Computer Networks and Modern Programming Platforms, and I ensured that students had the necessary support and resources to succeed in their studies.

Post-Secondary Teaching Assistant

September 2007 - February 2008 (6 months)

Famagusta, Turkey (T.R.N.C.)

I was involved in teaching the subjects of Object-Oriented Programming, Digital Logic Systems, and Systems Programming.

One of my primary responsibilities was to organize reference materials, visual aids, and any other required materials for the professors' lectures. This ensured that the necessary resources were readily available to support effective teaching.

I also conducted seminars, discussion groups, and laboratory sessions to complement the lectures and provide students with practical learning

opportunities. These interactive sessions aimed to enhance their understanding of the topics and encourage active participation.

In addition, I assisted in the preparation and administration of examinations. This included tasks such as setting up the exam environment, distributing and collecting exam papers, and ensuring a fair and organized examination process.

Another important aspect of my role was grading examinations, term papers, and laboratory reports. I carefully evaluated the students' work, provided feedback, and assigned appropriate grades based on the established criteria.

Overall, as a Post-Secondary Teaching Assistant at Eastern Mediterranean University, I actively contributed to the teaching and learning process in the subjects of Object-Oriented Programming, Digital Logic Systems, and Systems Programming. I organized materials, conducted interactive sessions, assisted with examinations, and graded students' work to support their academic progress.

TahlilGaran Novin Co. Ltd
Web Site Designer and Developer
January 2007 - July 2007 (7 months)
Tehran Province, Iran

Firstly, I designed a new website template with a blue colour scheme. I created two versions of the template, one with a left-to-right layout and another with a right-to-left layout, to accommodate different languages.

Additionally, I developed web-based applications using Microsoft ASP.NET (VB). One of these applications was for the Iranian Petroleum Company, specifically designed for financial reporting. The other application was for a company focused on documentation management and document flow.

In my role, I also consulted with clients to understand their website requirements and documented them effectively. I created mock-ups and storyboards to present the proposed designs to clients for feedback and approval.

I determined the website architecture and identified the hardware and software requirements for the projects. I sourced and organized information for inclusion on the websites and designed the appearance, layout, and flow of the

websites. I also created and optimized content using various software tools such as graphics, databases, and animation.

As a web developer, I wrote, modified, integrated, and tested website-related code. I conducted tests to ensure the security and quality of the websites. I also led and coordinated multidisciplinary teams consisting of graphics designers, content creators, and developers to ensure the successful completion of website projects.

Throughout my work, I researched and evaluated different interactive media software products to stay up-to-date with the latest technologies and tools for website development.

In summary, as a Web Site Designer and Developer at TahlilGaran Novin Co. Ltd, I designed website templates, developed web-based applications, consulted with clients, created mock-ups, determined technical requirements, organized information, optimized content, developed website code, conducted tests, coordinated teams, and researched software solutions.

Dariche Tasvir Emrouz Publicity Center

Web Developer

May 2006 - February 2007 (10 months)

Tehran Province, Iran

Designing business rules to generate profit from the website: I strategized ways to monetize the website through advertising, e-commerce, and other revenue-generating methods.

Consulting the Iranian truism 7eghlim website: I provided optimization recommendations to improve the website's performance and user experience.

Improving website ranking in search engines: I implemented search engine optimization (SEO) techniques to enhance the website's visibility, particularly in Google.

Designing and implementing the Internet Finder website: I developed the Internet Finder website (http://www.internetfinder.ir) by gathering client requirements, creating mock-ups and storyboards, and determining hardware and software needs.

Consulting with clients and documenting website requirements: I collaborated with clients to understand their needs and documented the requirements to guide the development process effectively.

Developing website architecture and determining hardware and software requirements: I designed the structure of the website and identified the necessary hardware and software components.

Sourcing and organizing information, designing website appearance: I selected and organized relevant content for the website, focusing on creating an appealing appearance and user-friendly layout.

Content creation and optimization: I generated and optimized website content using various software tools, ensuring its effectiveness and appeal.

Web development: I planned, designed, wrote, modified, integrated, and tested website-related code using programming languages and frameworks.

Conducting tests, security, and quality control: I performed tests to identify and resolve issues, implemented security measures, and ensured a high-quality user experience.

Researching and evaluating interactive media software: I explored and evaluated software products to identify the best tools and technologies for website development.

Dorsa Group Co.
Software Developer
March 2006 - July 2006 (5 months)
Tehran Province, Iran

I gathered requirements from BIPC Co, designed the software architecture, and implemented algorithms and mathematical models for linear data analysis. I focused on creating a user-friendly interface and conducted rigorous testing to ensure the application's functionality and performance. I also created comprehensive documentation and maintained effective communication with the BIPC Co. team. Overall, I successfully delivered a user-friendly and functional software solution for BIPC Co's linear analysis needs.

Eram Professions and Skills Institute
Computer Teacher

January 2006 - June 2006 (6 months)
Tehran Province, Iran

Throughout my role as a computer teacher, my aim was to provide students with a solid foundation in Microsoft Visual C# .NET. I developed a well-structured curriculum, created effective teaching materials, utilized various instructional methods, evaluated student progress, provided academic advising, offered individualized instruction, and supervised projects. By doing so, I sought to equip students with the knowledge, skills, and confidence to excel in programming using Microsoft Visual C# .NET.

Rayaneh Tadbir Pardaz Group Co. Ltd
1 year 11 months

Software Developer
July 2004 - May 2006 (1 year 11 months)
Tehran Province, Iran

During this period, I was involved in various projects and responsibilities related to software development. Here's a summary of my work:

Key Generator: I designed and implemented a key generator for a hardware device, ensuring secure operation.

Automation Application for Iran Stock Exchange: I contributed to the design and implementation of an automation application for the Iran stock exchange. This involved integrating software and hardware locks and utilizing a five-layer architecture with Microsoft .NET Remoting.

Technical Analysis Application: I designed and implemented an application specific to technical analysis for the Iran stock exchange. It provided tools and features for analyzing stock market data.

Portfolio Application: I worked on a portfolio management application, designing and implementing a section of it with a full five-layer architecture using Microsoft .NET Remoting.

Data Exchange with MetaStock: I designed and implemented an application for seamless data exchange with MetaStock, facilitating synchronization and transfer of data.

Stock Components: I developed various components related to stocks that could be used in different applications.

SMS Application for GSM Modems: I designed and implemented an application for sending SMS messages using GSM modems.

Software Architecture and Design Patterns: I focused on designing software architectures and incorporating design patterns to ensure efficient and maintainable code.

Service-Oriented Architecture (SOA): I designed and implemented a Service-Oriented Architecture (SOA) for applications, enabling loosely coupled and interoperable services.

Research and Implementation: I conducted research and implemented solutions such as fingerprint-based identification for stock buyers. I explored system security namespaces and cryptography in the Microsoft .NET Framework.

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Framework for Multi-Tier Applications: I designed and implemented a framework for multi-tier applications, specifically for Microsoft 5-tier application development using .NET Remoting technology.

Consultation and Teaching: I provided consultation on security aspects of Microsoft .NET Framework programming, including protection against code reversing, security, and cryptography. I also taught C# .NET, Design Patterns in C# .NET, and .NET Remoting to co-workers.

Software Development and Maintenance: I wrote, modified, integrated, and tested software code. I maintained existing computer programs, identifying and resolving technical problems.

Documentation and Reporting: I prepared reports, manuals, and documentation on software status, operation, and maintenance. I assisted in collecting user requirements and developing specifications.

Team Leadership: I led and coordinated teams of computer programmers, ensuring effective collaboration and successful project outcomes.

Software Evaluation: I researched and evaluated various software products for their suitability in specific projects.

In summary, during my employment at Rayaneh Tadbir Pardaz Group Co. Ltd, I played a significant role in various software development projects. I contributed to key generator systems, automation applications for the Iran stock exchange, technical analysis tools, portfolio management applications, data exchange applications, stock-related components, and more. I provided consultation, teaching, and leadership, along with carrying out responsibilities related to software development, documentation, and software evaluation.

Self-employed
Software Developer
January 2005 - March 2006 (1 year 3 months)
Tehran Province, Iran

During this time, I developed a Windows-based application for a high school to automate internal record keeping and report generation using Microsoft Visual C# .NET.

Working closely with the high school staff, I gathered their requirements and analyzed their existing manual processes. Based on this information, I designed a customized software application that would streamline their record keeping tasks and simplify report generation.

Using the Microsoft Visual C# .NET programming language, I implemented the application according to the design specifications. This involved writing code, integrating database functionality, and ensuring data accuracy and validation.

To ensure the application's reliability and functionality, I conducted thorough testing and debugging. This included unit testing, integration testing, and user acceptance testing to detect and resolve any issues or errors.

Once the application was stable and met the high school's requirements, I deployed it to their systems. I provided training to the staff members responsible for using the application, ensuring they were comfortable with its features and functionalities.

Throughout the project, I offered ongoing support and addressed any issues or enhancements that arose. This included providing bug fixes, software updates,

and incorporating additional features to further improve the application's efficiency.

In summary, as a self-employed freelance software developer, I developed a Windows-based application for a high school in Tehran Province. The application automated their internal record keeping and simplified report generation using Microsoft Visual C# .NET. I ensured the application's reliability through thorough testing and provided ongoing support to address any concerns or incorporate enhancements.

Self-employed
Computer Teacher
March 2003 - June 2004 (1 year 4 months)
Tehran Province, Iran

I developed a structured teaching plan that included lectures, demonstrations, discussion groups, laboratory sessions, workshops, seminars, case studies, field assignments, and independent or group projects. This approach provided comprehensive learning experiences for the students.

To support my teaching, I created curriculum materials and outlines specifically tailored for Microsoft Visual C# .NET and Microsoft ASP.NET. These resources helped students understand the topics covered and facilitated their learning process.

I assessed student progress through tests and papers, providing feedback and measuring their level of proficiency. This allowed me to evaluate their understanding and track their development over time.

I also provided guidance and advice to students regarding program curricula and career decisions. Drawing on my expertise in Microsoft Visual C# .NET and Microsoft ASP.NET, I offered insights to help them make informed choices in their educational and professional paths.

In addition to group instruction, I offered individualized tutorials and remedial instructions. This personalized approach allowed me to address specific student needs and provide targeted support.

I took on the responsibility of supervising independent or group projects, field placements, laboratory work, and hands-on training. This practical aspect of

learning provided students with opportunities to apply their knowledge in real-world scenarios, enhancing their practical skills.

Overall, my role as a self-employed computer teacher involved developing a comprehensive curriculum, teaching Microsoft Visual C# .NET and Microsoft ASP.NET, assessing student progress, providing guidance, and supervising practical projects and training. Through my dedication and support, students gained proficiency in these programming technologies.

Arena Co. Institute

Software Developer

March 2003 - June 2004 (1 year 4 months)

Tehran Province, Iran

I focused on Windows-based application development using C# .NET and Visual Studio. I had the opportunity to showcase my potential during a .NET Framework class, which led to the owner of the class recognizing my abilities and offering me a position at the company.

During my time at Arena Co. Institute, I gained proficiency in various aspects of software development. I utilized Visual SourceSafe (VSS) for source control, ensuring efficient collaboration and version management. I deepened my understanding of three-layer software design and became well-versed in Rapid Application Development (RAD) methodologies.

I also had the opportunity to work as a black box tester for an application developed in C# .NET, focusing on creating a user-friendly interface and a robust database. This experience allowed me to strengthen my skills in software testing and quality assurance.

Throughout my tenure, I delved into design patterns and software architecture, with a particular emphasis on the influential Gang of Four Design Patterns. This knowledge enabled me to design and implement a Windows-based application for the Ministry of Health. The application was used to manage the registration process for new drugstores, utilizing Microsoft Visual C# .NET.

In summary, my role as a software developer at Arena Co. Institute involved Windows-based application development using C# .NET, proficiency in design patterns and software architecture, and the successful implementation of applications for the Ministry of Health's registration processes.

Self-employed
Software Developer
October 2002 - June 2003 (9 months)
Tehran Province, Iran

Developed a comprehensive software application package for educational purposes. The package consisted of 13 programs designed specifically for a computer engineering student studying in the USA.
Utilized Microsoft Visual C++ to create the software applications, ensuring high performance and seamless functionality.

Collaborated closely with the client to understand their specific requirements and tailored the software package to meet their educational needs.

Demonstrated strong problem-solving skills and attention to detail while developing and testing the software programs.

Delivered the completed software application package within the agreed-upon timeframe, ensuring client satisfaction.

Worked independently from a home office in Tehran Province, effectively managing time and resources to meet project deadlines.

Self-employed
Computer Teacher
January 2002 - October 2002 (10 months)
Tehran Province, Iran

My role as a computer teacher involved implementing a systematic plan of lectures, demonstrations, discussion groups, laboratory sessions, workshops, seminars, case studies, field assignments, and independent or group projects. By employing various teaching methods, I aimed to provide a comprehensive learning experience to my students.

In addition to teaching, I took on several administrative responsibilities. This included developing the curriculum for Linux Fundamental and Administration, preparing teaching materials and outlines, and designing assessments such as tests and papers to evaluate students' progress. I also provided guidance to students regarding program curricula and career decisions, offering valuable insights into their educational and professional paths.

Furthermore, I offered personalized tutorial and remedial instructions to address individual learning needs. This approach allowed I to provide tailored support to students who required additional assistance or guidance.

As part of my role, I supervised independent or group projects, field placements, laboratory work, and hands-on training. This hands-on approach likely helped students gain practical experience and reinforce their understanding of Linux Fundamental and Administration concepts.

In summary, during my self-employed on-site position as a computer teacher at the educational center, I delivered comprehensive instruction in Linux Fundamental and Administration. I developed curriculum, prepared teaching materials, administered assessments, provided guidance to students, and facilitated hands-on learning experiences.

ISP Matlab Rayaneh
Server Administrator
April 2000 - September 2001 (1 year 6 months)
Tehran Province, Iran

My responsibilities included assembling personal computers with custom specifications, which involved selecting and installing hardware components to meet specific requirements. Additionally, I worked as an operator, handling client calls related to internet provider services, addressing their queries and resolving any issues they encountered.

Furthermore, I served as an administrator for an application called Radmin, which involved managing accounting, authentication, and authorization processes. This likely entailed ensuring secure access and appropriate permissions for users within the network.

It's worth noting that I also focused on improving network security, implementing measures to safeguard against unauthorized access, data breaches, and other potential threats. Additionally, I worked on enhancing the performance of servers, optimizing their configurations and settings to ensure efficient and reliable operation.

In summary, during my tenure at ISP Matlab Rayaneh, I held the role of a server administrator, where I excelled in assembling personal computers, managing client calls, administering the Radmin application, enhancing network security, and improving server performance.

Education

Eastern Mediterranean University

Master of Science (MSc), Artificial Intelligence · (2007 - 2011)

Islamic Azad University South Tehran Branch

Bachelor's degree, Computer Hardware Engineering · (1999 - 2004)