Aref Mirhoss

Senior Software Engineer | Full-Stack Developer

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Available for: Full-Time, Part-Time, and Contract Roles (No Visa Sponsorship Required)

SUMMARY

Senior Software Engineer with over 10 years of experience delivering high-scale JavaScript and TypeScript applications across Node.js, Angular, React, and Astro. Specializing in architectural patterns including Clean Architecture, Event-Driven, TDD, and Spec-Driven design. Proven leader in delivering full-lifecycle features from scratch and mentoring junior developers. Currently expanding technical proficiency into Generative and Agentic AI (Emerging Learner).

SKILLS

- Languages: JavaScript, TypeScript, Node.js, Python; Go & Rust (Junior).
- Frameworks: Nest.js, Express (Back-end); Vue.js, React, Angular, Astro, Next.js, Nuxt.js (Front-end).
- Architecture: Microservices, Domain-Driven Design (DDD), Clean Architecture, Event-Driven (EDA), Spec-Driven (SDA).
- AI & Machine Learning: Generative AI, Agentic AI (New Learner/Junior), Prompt Engineering, RAG.
- Testing & Quality: Test-Driven Development (TDD), Jest, Mocha, Playwright.
- Databases: SQL & No-SQL (PostgreSQL, MySQL, MongoDB); Redis, RabbitMQ.
- Infrastructure & Cloud: Docker, Git, GitHub Actions, AWS (S3, EC2, ECS, SQS, SES, Lambda), Azure, Cloudflare Workers.
- Specializations: Crypto Wallets, WebSockets, Web Scraping, Mentoring & Training.

PROFESSIONAL EXPERIENCE

Senior Software Engineer   August 2025 – Present
Vixio Regulatory Intelligence   London, UK

- Architected a fault-tolerant notification engine using Nest.js and Vue 3, facilitating 1,000+ real-time alerts daily.
- Led the migration of monolithic legacy services into a modular architecture, reducing deployment cycles by 15%.
- Mentored a squad of developers to ensure 100% automated test coverage using TDD and Jest.
- Actively Learning: Exploring the integration of Agentic AI to automate complex regulatory research tasks.
- Technologies: Nest.js, Vue 3, PostgreSQL, Prisma, Redis, AWS SQS, ECS, S3, GitHub Actions.

Software Engineer   August 2019 – August 2025
Candesic   London, UK

- Spearheaded end-to-end development of a centralized HRM platform utilizing Clean Architecture.
- Engineered a high-speed search engine via SharePoint API, reducing document retrieval times by 30%.
- Optimized PostgreSQL performance by refactoring complex Sequelize queries, resulting in a 40
- Technologies: Express.js, Vue, React, PostgreSQL, Sequelize, Docker, Azure AD, SharePoint API.

Senior Software Engineer   August 2018 – August 2019
Exchange Magix   Australia (Remote)

- Designed Event-Driven middleware for 5,000+ high-frequency daily transactions across BTC and USDT.
- Automated token-swap services through Binance API integration, enhancing transaction security.
- Technologies: Nest.js, Express, PostgreSQL, RabbitMQ, Redis, Binance API.

ADDITIONAL EXPERIENCE

Full Stack / Software Engineer   December 2014 – July 2017
Karina Mobile Solutions   Tehran, Iran

- Delivered stability improvements for a Python-based music streaming platform.
- Technologies: Node.js, Express.js, Angularjs, Vue.

Freelance Web Developer   September 2013 – November 2014
Self-employed   Tehran, Iran

Software Developer   August 2013 – November 2013
DPM Full-Stack Web Agency   Tehran, Iran

- Delivered the agency's first AngularJS-based website for a European artist, focusing on modern front-end frameworks.
- Technologies: Node.js, AngularJS, JavaScript.

Software Developer   August 2012 – August 2013
Teamatec   Tehran, Iran

- Built a Node.js web scraper for real-time market data visualization, processing 200+ price updates per minute.
- Technologies: Node.js, MongoDB, Cheerio, JSDom.

Web Developer   February 2012 – June 2012
ENN Complex   Tehran, Iran

- Developed internal WordPress products and contributed to a social media start-up squad similar to Pinterest.
- Technologies: PHP, WordPress, JavaScript.

CERTIFICATIONS & LANGUAGES

- Certifications: LPIC-1 (Linux Professional Institute), Accelerating Through Angular 2, ES2015: The Shape of JavaScript.
- Languages: English (Professional Working), Persian (Native Proficiency).