

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 specializing in Node.js, Nest.js, and high-scale distributed systems. Architect of reactive front-ends and Microservices within RegTech and Fintech sectors. Expert in Domain-Driven Design (DDD) and Clean Architecture, utilizing TDD (Jest/Mocha) and CI/CD automation to optimize system reliability and developer velocity.

SKILLS

- Languages: JavaScript (ES6+), TypeScript, Node.js.
- Frameworks: Nest.js, Express (Back-end); Vue (Vue 3), React, Angular, Astro, Nuxt.js, Next.js (Front-end).
- Architecture: Microservices, Domain-Driven Design (DDD), Clean Architecture, Event-Driven (EDA), Spec-Driven (SDA).
- Testing & Quality: Test-Driven Development (TDD), Jest, Mocha, GitHub Actions CI/CD.
- Databases: SQL & No-SQL; PostgreSQL, MySQL, MongoDB. Caching & Messaging: Redis, RabbitMQ.
- ORM/ODM: Specialized in Sequelize.js, Prisma, and Mongoose.
- Infrastructure: Docker, Git, Azure, Cloudflare Workers, Microsoft SharePoint API.
- Cloud (AWS): EC2, S3, Lambda Functions, SQS, EKS, ECS.
- Specializations: Blockchain API integration (Binance), WebSockets, Web Scraping.

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.
- Technologies: Nest.js, Vue 3, PostgreSQL, Prisma, Redis, AWS SQS, ECS, EKS, S3, GitHub Actions.
- Led the migration of monolithic legacy services into a modular architecture, reducing deployment cycles by 15%.
- Implemented robust CI/CD pipelines ensuring 100% automated test coverage with Jest.

Software Engineer August 2019 – August 2025
Candesic London, UK

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

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.
- Technologies: Nest.js, Express, PostgreSQL, RabbitMQ, Redis, Binance API.
- Automated token-swap services through Binance API integration, enhancing transaction security.

Senior Software Engineer August 2017 – August 2018
TripeMa Tehran, Iran

- Designed scalable backend infrastructure and RESTful APIs for a travel marketplace.

- Technologies: LoopBack, PostgreSQL, React, Angular, Redis.
- Optimized listing management workflows ensuring high availability during peak traffic periods.

ADDITIONAL EXPERIENCE

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

- Technologies: Express.js, Angular, Vue, Node.js.
- Delivered stability improvements for a music streaming platform, increasing uptime to 99.5%.

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

Software Developer August 2012 – August 2013
Teamatec Tehran, Iran

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

CERTIFICATIONS & LANGUAGES

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