

# Aref Mirhoss

Software Engineer

London, UK

+44-7765-737-444 | [hi@aref.uk](mailto:hi@aref.uk) | [aref.uk](http://aref.uk)  
[linkedin.com/in/arefdotuk](https://linkedin.com/in/arefdotuk) | [github.com/arefm](https://github.com/arefm)

## Professional Summary

Software Engineer with over 10 years of experience architecting high-performance web applications and blockchain solutions. Expert in backend system design (NestJS, Node.js) and reactive frontend interfaces (Vue 3, React). Proven track record of delivering scalable notification systems, optimizing database performance, and leading complex migrations. Committed to "Clean Architecture" principles and efficient, algorithm-driven development.

## Technical Skills

- Backend: Node.js, NestJS, Express, Python, GraphQL, RESTful APIs
- Frontend: Vue.js (Vue 3, Composition API), React, Angular, Astro, TypeScript
- Database & Infra: PostgreSQL, MySQL, MongoDB, Redis, Prisma, Docker, AWS, GCP, Azure
- DevOps & Testing: CI/CD (GitHub Actions), Jest, Mocha, Linux (LPIC-1)

## Experience

Senior Software Engineer	Aug 2024 – Present
Vixio	London, UK
• System Architecture: Architected a scalable notification system from scratch handling tasks, updates, and comments, bridging Backend (NestJS) and Frontend (Vue 3).	
• Performance Engineering: Implemented a robust dispatching engine with an email queuing system (Cron jobs) and optimized Prisma queries, preventing bottlenecks during high-load events.	
• Frontend Development: Built a reactive Notification UI with WebSockets for real-time badges and alerts; implemented a "Kill Switch" for incident management.	
• Quality Assurance: Wrote comprehensive shell/integration tests to validate relevance algorithms and managed complex PostgreSQL migrations to ensure zero data loss.	
Senior Software Engineer	Aug 2019 – Aug 2024
Candesic	London, UK
• Platform Development: Developed a comprehensive HR management platform (Node.js/Vue.js) using Clean Architecture; integrated Azure for security and Monday.com API for real-time data sync.	
• Resource Optimization: Built an interactive resource allocation calendar and attendance tracking system, significantly reducing administrative time for timesheet and leave approvals.	
• Financial Tracking: Implemented a project cost tracking service enabling precise expense monitoring across the project lifecycle.	
Senior Software Engineer (Remote)	Aug 2018 – Aug 2019
Exchange Magix	Sydney, Australia
• Blockchain Integration: Engineered a middleware layer integrating Binance APIs with Node.js to support wallet creation and high-frequency transactions.	
• Latency Reduction: Integrated Redis caching for blockchain data, drastically improving API response times for real-time price updates.	
• Reliability: Implemented automated transaction confirmation monitoring to ensure network status accuracy.	

- Software Engineer Sep 2017 – Aug 2018  
Trip-e Ma Tehran, Iran
- API Development: Built the backend for a localized accommodation marketplace (LoopBack/PostgreSQL), delivering RESTful APIs for iOS/Android clients.
  - Scalability: Designed scalable listing management and booking workflows, optimizing for high reliability in a high-traffic localized market.

- Full-Stack Developer July 2015 – Sep 2016  
Karina Tehran, Iran
- Developed a music streaming web application (AngularJS/Python), creating a seamless audio playback experience and content management system.

## Certifications

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- Linux Professional Institute: LPIC-1 Certified
- AWS: Certified Solutions Architect