

# Mohammad Mahdi Heidari

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## PROFESSIONAL SUMMARY

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Senior Software Engineer with 6+ years of experience building scalable and reliable digital products, with a focus on fintech and online platforms. Worked with international teams and contributed to products used by a wide range of users. Co-founded and grew a B2B marketplace from idea to nationwide reach. Graduate of Sharif University. Based in Istanbul, seeking senior engineering roles.

## WORK EXPERIENCE

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### Co-founder & Technical Lead | [SimanBan](#)

Jan 2025 – Jan 2026

- Co-founded Simanban.com – Iran's first AI-powered B2B platform digitizing the physical cement and concrete trade market, expanding sales reach from a single city to a nationwide marketplace.
- Engineered a data pipeline to collect, clean, and categorize large volumes of raw physical market trade data, presenting it through a high-quality analytics dashboard tailored for traditional cement market users including bulk buyers and tower developers.
- Built an AI-powered chat interface that converts natural language questions into sophisticated database queries, enabling users to retrieve any custom market analytics on demand without technical knowledge.
- Digitized manual cement sales and expanded to concrete – shipping a driver mobile app, sales management dashboard, and affiliate marketing system that drove a ~30% increase in overall sales.
- Developed a customer analytics system that identified loyal buyer patterns, leading to a bank partnership and the launch of a cement bond (securities) system enabling installment-based purchasing.
- Launched at the International Cement Exhibition (B2B) – acquired 500 bulk and tower builder users within the first hours. Led a team of 3, owned full architecture and CI/CD pipelines.

### Senior Software Engineer | [AuraDent](#) · Sweden (Remote)

Apr 2023 – Oct 2025

- Built the backend for AuraDent's multi-clinic dental booking platform using NestJS and a microservices architecture orchestrated via Kong API Gateway, deployed on Kubernetes (K8s) with a high-availability setup achieving zero downtime in production.
- Solved the core sync challenge of aggregating appointment data from multiple third-party clinic booking systems (each with its own API and data model) – implemented an event-driven architecture with the Outbox Pattern and eventual consistency to guarantee reliable, conflict-free synchronization.
- Prevented double-bookings under high concurrency using Redis Redlock (distributed lock) combined with database-level optimistic locking, ensuring fully idempotent booking operations even under race conditions.
- Secured sensitive patient data with end-to-end encryption and centralized secrets management (HashiCorp Vault), ensuring all medical records remained protected at rest and in transit across all microservices.

## Senior Backend Developer & AWS Cloud Architect | [Clanz](#) · Sydney, Australia *Mar 2022 – Jan 2023*

- Built and maintained REST API endpoints for a fintech copy-trading platform using Express.js, MySQL, and Prisma ORM.
- Architected a high-scalability trade broadcasting system using AWS SNS + SQS fanout pattern – a single leader trade signal fans out to trigger simultaneous copy orders across thousands of follower accounts with guaranteed, no-loss delivery.
- Built best-practice WebSocket connection management on AWS API Gateway + DynamoDB handling full connection lifecycle (connect/disconnect/reconnect), heartbeats, and per-user session routing for real-time market and account updates.
- Used SQS FIFO queues to enforce strict message ordering for trade execution, preventing race conditions that could cause incorrect portfolio states.
- Implemented AWS Lambda serverless workers and Step Functions for multi-step workflows – reduced Binance historical data generation time by 90%; used EventBridge Scheduler for cron jobs and CloudFormation + Serverless Framework for full IaC automation.

## Backend Developer | [Denxa Corporation](#) · Canada (Remote)

*Dec 2021 – Mar 2022*

- Built microservice REST APIs for a blockchain-powered cryptocurrency exchange platform using Domain-Driven Design (DDD), supporting Investor Launchpad, Innovation Forge, and Digital Evolution Hub products.
- Designed and implemented a Central Limit Order Book (CLOB) matching engine using Price-Time Priority (FIFO) algorithm – ensuring fair, low-latency trade execution with full auditability across all trading pairs.
- Built a market maker bot to provide liquidity by continuously placing bid/ask orders around the mid-price, tightening spreads and ensuring consistent order book depth.
- Integrated with multiple blockchain full nodes (BTC, ETH, BNB and others) achieving 100% transaction reliability; reduced API latency by 80% via Redis caching layer.

## EDUCATION

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**Bachelor of Engineering, Computer Engineering** · [Sharif University of Technology](#) · GPA 16.41/20 · Tehran, Iran *Sep 2018 – Sep 2022*

**Diploma, Mathematics & Physics** · [Allameh Helli High School](#) · GPA 18.44/20 *2012 – 2017*

National Organization for Development of Exceptional Talents (NODET) · Hamedan, Iran

**TOEFL iBT** · Score: 103 / 120

## TECHNICAL SKILLS

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**Cloud & Infra:** AWS (Lambda, SNS, SQS, DynamoDB, Step Functions, EventBridge, API Gateway, S3, EC2, Cognito, Route 53, VPC, Beanstalk), CloudFormation, Serverless Framework, Docker, Docker Compose

**Backend & APIs:** Node.js, NestJS, Express.js, REST, WebSockets, RabbitMQ, Kong API Gateway, Microservices, Prisma, Sequelize

**Databases:** MySQL, MongoDB, Redis, T-SQL (MSSQL)

**Practices & Patterns:** Event-Driven Architecture, Outbox Pattern, Saga Pattern, DDD, SOLID, Distributed Locking, Clean Code, Unit Testing, CI/CD, Git, Linux

**Languages:** English (Professional), Farsi (Native)