Alireza Rezapour

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＞ SUMMARY

Backend Engineer with **3+ years of experience** delivering **backend services** that power real **user-facing products**. Comfortable **collaborating across teams**, improving system **performance** and **reliability**, and evolving **architectures** to support **growth**. Interested in building **secure**, **maintainable systems** that **scale smoothly** in **production**. **Currently based in Mashhad, but open to relocating to Tehran for the right opportunity.**

＞ EXPERIENCE

Hamtapay

Software Engineer • Mashhad   *08/2025 - present*

- **Financial Service Refactor**: Led a full refactor of the Financial service core, reducing transaction failures by 90% and improving PostgreSQL transaction handling, which resulted in a 30% reduction in production issues.
- **Database Load Reduction**: Identified and resolved bottlenecks, implementing caching strategies that reduced database read load by 99%, lowering request rates from 5,000+ per second to under 20 per second and improving overall system performance.
- **Async Architecture Transition**: Transitioned inter-service communication from synchronous REST to event-driven, async architecture, reducing network traffic by 40% and improving system scalability.
- **Admin Panel Optimization with ClickHouse**: Migrated heavy analytical queries to ClickHouse, reducing query execution times by 50% and improving overall platform performance by offloading data processing from the main PostgreSQL database.
- **Campaign Activation Improvement**: Improved campaign activation times from 4-5 hours to near-instant by implementing a lazy assignment model, reducing system load and increasing campaign efficiency.
- **API Gateway & Internal Tooling Enhancement:** Extended the Kong API Gateway with custom Golang plugins and developed AI-powered internal tools, improving internal workflows and reducing development time by 20%.

Part Software Group

Software Engineer • Mashhad   *04/2024 - 08/2025*

- **Production Recovery Leadership**: Led cross-team efforts during critical production outages, reducing mean time to recovery (MTTR) by 70% through effective collaboration and troubleshooting.
- **Performance Optimization**: Diagnosed and resolved production bottlenecks using OpenTelemetry and profiling tools, reducing latency in key workflows by up to 60%.
- **Service Re-Architecture**: Spearheaded the re-architecture of key services, designing scalable solutions and delivering MVP implementations that reduced technical debt and accelerated deployment times by up to 50%.
- **Technical Leadership**: Contributed to architectural decisions and authored 10+ RFCs, shaping company-wide standards and improving engineering practices.
- **Sprint Planning & Backlog Refinement**: Orchestrated sprint planning and backlog refinement, improving story point estimation accuracy by 15% and enhancing sprint delivery predictability by 20%.
- **Mentorship & Onboarding**: Mentored new team members, improving onboarding processes and reducing ramp-up time by 40% through better documentation and hands-on guidance.

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Software Developer • Mashhad   *08/2023 - 04/2024*

- **Monolithic to Microservices Migration:** Architected and led the migration from a monolithic system to microservices, reducing deployment time by 70% and improving response latency by 40%.
- **Crypto Market Data Service Optimization:** Redesigned the crypto market data service, improving data fetch time by 50% for approximately 200 symbols, enabling faster real-time AI analysis.

- **Real-Time Alerts with InfluxDB**: Developed custom event-driven listeners on InfluxDB, enabling real-time alerts for hundreds of user-defined conditions
- **High-Performance Data Streaming**: Utilized NATS for low-latency, high-performance data streaming, supporting real-time communication between AI-driven services and improving decision-making speed.
- **Custom CRM Development**: Designed a custom CRM system to track user behavior and automate actions, improving user retention and support efficiency.
- **API Gateway Implementation:** Set up KrakenD API Gateway for routing and security, enabling seamless scaling of backend endpoints and ensuring secure and reliable API management.
- **CI/CD & Deployment Automation:** Implemented CI/CD pipelines, increasing deployment reliability and reducing release friction across the development lifecycle.

Farajahan Hashtom
01/2023 - 05/2023

Software Developer • Mashhad

- **Backend System Design**: Designed and implemented the entire backend using Node.js and Express, ensuring scalability and maintainability for the application.
- **Dual Payment System Development**: Developed a dual payment system supporting cryptocurrency and local fiat transactions through bank gateways, providing flexible payment options for users.
- **Two-Factor Authentication (2FA)**: Enhanced security by implementing TOTP (Time-based One-Time Password) for two-factor authentication, improving account protection.
- **Real-Time WebSocket Integration**: Engineered real-time WebSocket functionality for the crypto and fiat payment system, enabling immediate transaction updates to over 5,000 users and improving user experience while reducing support requests by 30%.
- **MongoDB Optimization**: Optimized MongoDB queries and indexing, improving database performance and ensuring efficient data retrieval for the system.

> SKILLS

- ❖ **Languages:** JavaScript (ES6+), Node.js, TypeScript, Golang
- ❖ **Databases:** MongoDB, InfluxDB, Redis, PostgreSQL, MySQL, Clickhouse
- ❖ **Messaging:** RabbitMQ, NATS
- ❖ **Architecture:** Microservices, RESTful APIs, System Design
- ❖ **DevOps & Infrastructure:** Docker, CI/CD, Git, KrakenD, Kong, PeerDB
- ❖ **Monitoring & Debugging:** OpenTelemetry, Grafana, OpenSearch, Graylog, Signoz
- ❖ **Other:** Basic Linux & Networking, Production Incident Management, Mentorship

> EDUCATION

Shandiz University
Aug 2022

Bachelor of Computer Engineering

> OTHERS

- My articles: https://medium.com/@namatery
- My npm packages: https://www.npmjs.com/~namatery