

AMIR IRANMANESH

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OBJECTIVE

Engineering Manager & Senior Backend Engineer with 7+ years of experience leading teams and building distributed systems for fintech, blockchain, and security-critical platforms. Strong focus on **system architecture, team leadership, scalable backend engineering**, and **DLT/CBDC ecosystems**. Expert in **Golang, microservices, high-concurrency systems**, and secure infrastructure.

EDUCATION

M.Sc. in Artificial Intelligence, Islamic Azad University (Science & Research Branch), Tehran
2022 – 2025

B.Sc. in Computer Engineering, Semnan University
2016 – 2020

SKILLS

Programming Languages	Golang, TypeScript/NodeJS, Rust, Python, Java, Kotlin
Databases & Messaging	PostgreSQL, MongoDB, Redis, DynamoDB, Kafka, RabbitMQ, NATS, gRPC
Blockchain	Stellar, Hyperledger Fabric, Ethereum, Tokenization, Smart Contracts, PKI, DLT
DevOps & Infrastructure	Docker, Kubernetes, AWS (Cognito, S3, DynamoDB, Lambda), CI/CD, Kong
Observability & Security	Elastic Stack, Kibana, Prometheus, Grafana, Sentry, Shamir Secret Sharing
Other Skills	System Architecture, Distributed Systems, WalletConnect, IPFS, MinIO

EXPERIENCE

Kuknos

Chief Technology Officer (CTO)

2024/05 – Present

- Lead an engineering organization of 15+ across backend, frontend, and DevOps.
- Own technical direction across Kuknos Blockchain, Borna Blockchain (CBDC), payment infrastructure, enterprise wallet systems, PKI/certificate services, and distributed backend platforms.
- Define OKRs, technical roadmaps, architecture standards, and delivery priorities across multiple products.
- Established reliability standards through observability and on-call processes.

Team Lead

2023/05 – 2024/05

- Led backend and blockchain engineering for **Borna Blockchain**, a Hyperledger Fabric-based CBDC platform for the Central Bank of Iran.
- Delivered secure integrations with banks and financial institutions for CBDC-related services.
- Reviewed microservice architectures, data consistency models, and secure API layers.

Backend Developer

2021/09 – 2023/05

- Worked on **Kuknos Blockchain**, a fork of Stellar, and built backend services around blockchain operations, tokenization, wallets, and signing flows.
- Built PKI and digital-certificate microservices and secure PDF-signing systems.
- Implemented **Shamir Secret Sharing** and key-management workflows for secure recovery.
- Improved authentication performance by 3x and developed federated identity services.
- Engineered encrypted storage workflows using IPFS and MinIO.

Vency (Part-time)**Technical Consultant**

2026/01 – 2026/04

- Designed **HubChain**, a multi-tenant blockchain middleware for user balance orchestration across 30+ cryptocurrencies and 35+ blockchain networks.
- Built provider-agnostic architecture for wallet/address management, real-time balance tracking, freeze/unfreeze, transfers, withdrawals, liquidation, and audit ledgers.
- Designed gRPC/REST APIs, Redis distributed locking for horizontal scaling, RabbitMQ event publishing, structured logging, health checks, and Elastic APM-compatible observability.

Dr. Saina (Part-time)**Technical Consultant**

2025/03 – 2025/05

- Consulted on a high-load communication and messaging system using WebSocket, Redis Redlock, MongoDB, and concurrent processing.
- Improved real-time chat architecture and fixed CPU/RAM usage problems under heavy user load.
- Reviewed service reliability, concurrency control, and performance bottlenecks.

GoldenGate**Backend Engineer**

2025/01 – 2025/03

- Designed and developed a blockchain-based precious metal asset platform with a different architecture from ZaryaalGold.
- Implemented wallet operations, asset issuance workflows, pricing, transaction processing, settlement, and blockchain integration.
- Stack included Golang, gRPC, RabbitMQ, Redis, PostgreSQL, Stellar, Elastic, and Grafana.

ZaryaalGold**Backend Engineer**

2024/07 – 2025/01

- Developed a gold asset ecosystem for buying, selling, transferring, and settling user assets.
- Built backend services for user balances, IPG/payment flows, settlement, asset transfers, and a custom GL (general ledger).
- Used Golang microservices, gRPC, RabbitMQ, Redis, PostgreSQL, Kong, and Elastic/Kibana/Grafana.

Lendin (Remote)**Backend Engineer**

2023/05 – 2023/10

- Built backend services for a **peer-to-peer lending platform** with installment lending and crypto collateral.
- Architected services using Golang/NodeJS, gRPC, PostgreSQL, Redis, NATS, and RabbitMQ.
- Integrated AWS services including Cognito, DynamoDB, and S3.
- Implemented loan lifecycle, repayment, wallet operations, and KYC flows.

Android Developer (Freelancer)

2017 – 2021

- Delivered 10+ Android apps using MVVM/MVP, Firebase, ARCore, MLKit, Room DB.
- Designed end-to-end mobile architectures with clean code and scalable UI components.