

Pedram Pourmohammad

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Summary

Senior Go Engineer with 7 years of professional software engineering experience, including 3+ years building production Go microservices at scale. Proven track record in fintech and payment-critical systems — from high-throughput REST and gRPC APIs processing 1M+ transactions/month to real-time digital gold trading platforms for regulated financial services. Deep expertise in back-end microservice architecture, Kafka-based async messaging, and test-driven development. Experienced delivering greenfield and transformation work end-to-end within Scrum teams in modern cloud-native environments (AWS, Kubernetes, Docker, Jenkins).

Experience

Senior Backend Engineer, Tapsi – Tehran, Iran Jan 2024 – present

- Architected a gRPC-based microservice in Go processing **600K+ RPS** with **less than 7ms** average latency, owning full design from data model to Kubernetes deployment.
- Engineered a fault-tolerant transaction system with circuit breakers, retry strategies, and idempotency patterns, reducing payment-related incidents by **60%** in high-stakes dispatch flows.
- Developed **Toggo**, an open-source feature flag and A/B testing SDK in Go — adopted across **4 product teams**, enabling controlled rollouts for **15+ concurrent experiments** in production.
- Drove cross-team alignment across Product and Platform (**3 teams, 15+ engineers**) to define service contracts, SLAs, and deployment standards, working in a Scrum delivery model.
- **Stack:** Go, Kafka, Redis, gRPC, Kubernetes, MongoDB, Prometheus, Envoy, Istio, Helm

Backend Engineer - Payments & Finance, Digikala – Tehran, Iran Jan 2023 – Jan 2024

- Architected backend infrastructure and scaled RESTful payment APIs for a regulated digital products vertical (gift cards, vouchers, stockless items), processing **1M+ transactions/month** and driving a **15%+ increase in total platform sales**.
- Launched **Liquid Gold**, a real-time digital gold trading product backed by physical reserves — a regulated financial instrument — onboarding **5,000+ users** in the first quarter.
- Optimized PostgreSQL/MySQL query performance and introduced a Redis caching layer, cutting average API response time by **50%** across payment-critical endpoints.
- Streamlined CI/CD pipelines with Docker and Jenkins, cutting deployment time by **40%** and reducing failed deployments by **30%**.
- **Stack:** Go, PHP, Symfony, PostgreSQL, MySQL, Redis, Docker, Jenkins

Backend Engineer - Microservices, Fanap – Tehran, Iran Apr 2022 – Jan 2023

- Built and operated chained Go microservices processing asynchronous event streams via Kafka, serving **3 production back-end pipelines** at high concurrency with versioned REST APIs and automated health checks.
- Reduced service deployment lead time from **weeks to days** by standardizing containerized templates with automated CI/CD and health checks.
- Configured Prometheus alerting rules for critical system metrics, enabling early detection of performance bottlenecks and reducing service disruptions by **25%**.
- **Stack:** Go, Kafka, PostgreSQL, AWS S3, Docker, ArgoCD, Prometheus, Grafana

Software Engineer, Fanap – Tehran, Iran Apr 2021 – Apr 2022

- Productionized **5+ back-end services** from prototypes to Kubernetes-deployed microservices, applying TDD practices to validate API contracts before implementation.
- Implemented automated canary deployment workflows using Kafka event streams, improving system freshness and cutting rollback incidents by **40%**.

- Defined service API contracts and SLA monitoring dashboards adopted across the engineering team, standardising service handoffs.
- **Stack:** Python, Go, Kafka, PostgreSQL, Docker, Kubernetes

Software Engineer (R&D), Parspooyesh Fanavar – Tehran, Iran

Sept 2019 – Mar 2021

- Validated **3 back-end solutions** using TDD, achieving target accuracy thresholds on production datasets and securing stakeholder approval for full-scale development.
- Engineered a real-time data processing pipeline achieving **92% accuracy** on live streams, applying test-driven development throughout.
- **Stack:** Python, Go, PostgreSQL, Docker, Flask

Open Source

Toggo

2024 – present

- Creator and maintainer — open-source feature flag and A/B testing SDK written in Go.
- Adopted across **4 product teams** at Tapsi, enabling controlled rollouts for **15+ concurrent experiments** in production.
- Designed for low-latency, high-throughput feature evaluation with pluggable flag providers.

Prometheus client_golang

2025

- Contributor — submitted and merged [PR #1971](#): "fix: respect context cancellation in httpClient.Do"
- Fixed a critical bug where a canceled context could cause `httpClient.Do` to block instead of returning immediately.

Education

University of Tehran, MSc in Computer Science – Artificial Intelligence – Tehran, Iran

Sept 2022 – Sept 2025

- Thesis: Session-Based Recommendation System: A Transformer-Based Graph Neural Network Approach

Amirkabir University of Technology, BSc in Applied Mathematics – Tehran, Iran

Sept 2016 – May 2021

Skills

Programming Languages: Go (primary), Python, TypeScript/Node.js, PHP

Back-End & Protocols: gRPC, REST APIs, Gin, Microservice Architecture, Async Messaging

Databases & Caches: PostgreSQL, MongoDB, MySQL, Redis

Streaming & Messaging: Kafka, event-driven architecture

DevOps & CI/CD: Docker, Kubernetes, Jenkins, ArgoCD, Helm, Git

Cloud: AWS (S3, EC2), cloud-agnostic deployments

Observability: Prometheus, Grafana, Graylog, Tempo

Principles: TDD, BDD, CI/CD, SOLID, DDD, Clean Code, Scrum, ACID

Languages

English: Professional proficiency (IELTS 7.5)

Persian (Farsi): Native