

Ravyar Tahir

Backend Software Engineer · Sulaymaniyah, Iraq

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SUMMARY

Backend engineer with 7+ years building distributed systems in Go and Python. At IQ Labs I own backend architecture across services: a real-time fleet platform at 5,000+ concurrent WebSocket connections and <200ms P95, and a RAG assistant cut from 2s to under 400ms. Graduated Rank 1 in Computer Science at Komar University (2024).

SKILLS

Languages: Go, Python, Rust, Java **Protocols:** REST, gRPC, WebSockets, SSE
AI/ML: RAG, MCP, Vector Databases, Milvus, BGE-M3 Embeddings, Cross-encoder Re-ranking, Machine Learning
Databases: PostgreSQL, Citus, Redis, ClickHouse, MySQL
Infrastructure: Docker, Kubernetes, Terraform, AWS, Linux, CI/CD, Git, HAProxy, Kafka
Spoken: Kurdish (Native), English (C2), Arabic (B2), Japanese (JLPT N5, in progress)
Architecture: Distributed Systems, Real-time Systems, Microservices, Streaming Pipelines, High Availability, Observability, Distributed Tracing, Structured Logging, Circuit Breakers

EXPERIENCE

Senior Backend Engineer

Jun 2025 – Present

IQ Labs, Iraq-based product and AI engineering company

- Own backend architecture across the group as its only senior backend engineer; lead architecture reviews and system design sessions, and mentor engineers through code review.
- Built Rega, a real-time platform for bus and taxi fleets with live vehicle tracking and in-app chat, sustaining 5,000+ concurrent WebSocket connections at <200ms P95 latency with zero data loss under peak load.
- Built an internal AI assistant (RAG) on Milvus with multilingual BGE-M3 embeddings, cross-encoder re-ranking and MCP tool integration, cutting query latency from 2s to under 400ms and streaming answers over SSE.
- Integrated the HyperPay and Areeba payment gateways and led the PCI DSS compliance work.
- Designed and demonstrated a Go replacement for the ISP billing platform (PostgreSQL/Citus, Patroni failover, FreeRADIUS behind HAProxy), removing the single-primary MySQL and single-RADIUS points of failure; the demo runs against a live NAS server and devices.
- Built a ClickHouse log pipeline ingesting 240GB of logs per day.
- Introduced distributed tracing, structured logging and circuit breakers across real-time and AI services, reducing peak-traffic incidents.

Backend Engineer

Feb 2024 – Jun 2025

IQ Labs, Iraq-based product and AI engineering company

- Shipped vendor-agnostic billing middleware across multiple product lines, cutting reconciliation workload by 70% and vendor onboarding from weeks to hours.
- Worked on IQ DigiCare, the customer self-care platform for ISP IQ Online, then built the equivalent platform for Optiq, a second ISP brand serving different cities.
- Wrote the backend for Kurdim, a Kurdish-language learning app for English speakers, alone and end to end.
- Built a voucher management system that issues prepaid internet cards for IQ Online.
- Built a scraping service that collects live readings from IQAir air-quality monitoring devices.

Independent Contractor and Lead Developer

Jan 2018 – Dec 2024

Neofinity and Client Projects

- Sole engineer for Gloctor (formerly Kurdoc), a healthcare platform for clinic queues, medical records and prescriptions used daily by 59 doctors; migrated it from PHP to Python and then to Go, resolving throughput bottlenecks and cutting API response times.
- Delivered backend projects for 5+ clients across fintech, healthcare and logistics, designing REST/gRPC APIs and automated data pipelines in Go and Python.

PROJECTS

go-arabic-reshaper (github.com/ravarage/go-arabic-reshaper): open-source Go library for Arabic and Kurdish text reshaping and bidirectional rendering, for terminals, PDFs and CLI tools that lack native shaping support.

arabic-reshaper (upstream contribution): added Kurdish (Sorani) character support to the open-source Python arabic-reshaper library; reviewed and merged upstream.

Image-Processing Spiral Drawing Robot (BSc graduation project): Python/OpenCV pipeline (YOLO and Haar-cascade face detection, Gabor and Canny edge extraction, morphology) that turns a photo into G-code drawn as one continuous spiral by an Arduino-controlled plotter.

EDUCATION AND CERTIFICATIONS

BSc in Computer Science, Komar University of Science and Technology, Rank 1, Top Student

2024

Machine Learning Specialization, DeepLearning.AI and Stanford Online

2026

Meta Backend Developer Professional Certificate, Meta

2023