

FATHI GHANEM

BACKEND ENGINEER

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SUMMARY

Backend engineer working across Go, Java and Python. Currently building multi-tenant AI services and enterprise integrations — FastAPI/LangGraph, Spring Boot, Kafka, IBM ODM, Apigee. Independently architected and operate an 8-service polyglot platform in production at fggstore.com, including a Go identity service issuing Ed25519-signed JWTs with automated key rotation, and a fulfillment pipeline with exactly-once delivery guarantees.

EXPERIENCE

Optimum Partners — Software Engineer

Amman, Jordan | 12/2025 – Present

- Promoted from the Coding Master program into a full-time engineering role within one month on performance.
- Extend a multi-tenant AI platform (FastAPI, LangChain, LangGraph) — ship new LLM integrations and graph state management across PostgreSQL, MongoDB and a vector database, with Kafka carrying asynchronous events between services and strict per-tenant data and configuration isolation.
- Build backend features for an enterprise platform on Java / Spring Boot — design rules-based decision logic in IBM ODM, implement and debug BPM workflows, and integrate services over Oracle Service Bus (OSB) and JMS messaging.
- Own Apigee API integrations: onboarding new APIs, building proxies and custom routing paths, and using the gateway for end-to-end request tracing across distributed services.

FGG Store — Founder & Lead Backend Engineer

Amman, Jordan | Business 2018 – Present · Platform engineering 2025 – Present · Live in production: fggstore.com

- Architected a polyglot backend of 8 services across Go, Java and Python behind an Nginx gateway — ~42,000 lines of Go (chi, pgx, golang-migrate) for latency-sensitive services, Spring Boot for the transactional core, FastAPI for async collection workloads — with boundaries drawn so a failing supplier or notification cannot take down checkout.
- Built the identity service in Go: EdDSA (Ed25519) access tokens, a published JWKS endpoint, automated signing-key rotation and retirement, refresh-token rotation, and Google OIDC sign-in — stateless auth verified independently by services in three languages, with no shared secret.
- Engineered exactly-once delivery for a non-idempotent external call via a unique-index ledger written inside an isolated transaction boundary, so retries, crashes and concurrent requests cannot duplicate a delivery or a charge.
- Replaced manual fulfillment with an automated pipeline — OAuth token lifecycle, an eligibility state machine enforcing a provider's 48-hour constraint, delivery triggered on payment confirmation — completing orders in under a minute with no human step.
- Hardened the Spring Boot commerce core: layered security filter chains, TOTP admin 2FA, AES-256 encryption of delivered credentials, and rule-based fraud scoring; integrated three payment paths (Binance Pay, CliQ bank transfer, cash on delivery) through to reconciliation.
- Own delivery and operations end to end: GitHub Actions to GHCR, Docker Compose on a self-managed Linux VPS, 49 versioned migrations applied without downtime, Prometheus instrumentation, Redis caching, and encrypted off-site backups.

Karwanchi Group — Software Engineer, Freelance

Erbil, Iraq (remote) | 11/2025 – 12/2025

- Delivered “Khatwat Aman”, a hazard-reporting system now in daily production use — REST backend, a Flutter field app and an Angular operations dashboard — replacing paper reporting and cutting incident response times.

EDUCATION

B.Sc. Computer Science — The Hashemite University | 10/2021 – 09/2025 | GPA: Very Good (3.0 / 4.0)

Full-Stack & Mobile Development Program — Luminus DigiSkills | 07/2025 – 11/2025

SKILLS

Languages	Go, Java 21, Python 3.11, SQL, TypeScript
Backend	Spring Boot, FastAPI, chi, REST API design, microservices, event-driven architecture, Kafka, multi-tenancy, JWT / OAuth2 / OIDC, RBAC, AES-256, TOTP 2FA
AI & Enterprise Integration	LangChain, LangGraph, LLM integration, vector databases, IBM ODM, BPM workflows, Oracle Service Bus (OSB), JMS, Apigee API gateway
Data	PostgreSQL, MongoDB, Redis, Flyway, golang-migrate, SQLAlchemy, schema design & migrations
Infrastructure	Docker, Docker Compose, Nginx, Linux, Git, CI/CD, GitHub Actions, GHCR, Prometheus, Cloudflare R2
Spoken	Arabic (native), English (fluent)