

Georges El Hayek

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PROFESSIONAL SUMMARY

Backend-focused Software Engineer with hands-on experience building Java and Spring Boot microservices. Delivered end-to-end features across POS and e-commerce platforms, including SQL tuning, JVM optimization, and asynchronous messaging with Kafka across distributed microservices. Comfortable working full-stack when needed, with Next.js on the frontend and PostgreSQL/MySQL on the data layer.

PROFESSIONAL EXPERIENCE

Software Engineer — HamsterPos, Beirut, Lebanon

July 2024 – June 2025

- Implemented scalable microservices using Java Spring Boot and PostgreSQL, while maintaining and enhancing a legacy POS system, contributing to doubling the customer base.
- Applied Domain-Driven Design and CQRS for maintainability and scalability, using Kafka for asynchronous inter-service communication.
- Designed and shipped a delivery-zone mapping feature (polygon and circle zones) backed by PostGIS with GiST spatial indexing for low-latency lookups.
- Led the development of value-added features for the POS system by enhancing existing functionality and introducing new services while ensuring smooth migrations and stability.
- Reduced execution time of core transactional SQL queries by 50% through index tuning and query refactoring.
- Cut memory usage of the legacy POS by 40% by tuning JVM garbage collection and reviewing object lifecycle.

Full-Stack Engineer — Ethel Chocolate (Contract)

August 2025 – Present

- Designed and built a full-stack e-commerce platform end-to-end: Spring Boot backend, Next.js frontend, PostgreSQL data layer.
- Tuned database indexing and added Caffeine in-memory caching and HTTP response caching (ETag/Cache-Control), cutting redundant database hits on hot endpoints.
- Integrated DigitalOcean Spaces (S3-compatible CDN) for media, AWS SES for transactional email, and Stripe for payments with webhook handling and refund flows.
- Deployed backend to a Linux VPS and frontend to Vercel; production-ready and fully tested, awaiting public launch per client schedule.
- Implemented a dedicated B2B portal for business clients, with a tailored ordering experience separate from the retail storefront.

Additional Experience: Selected by Antonine University in 2024 for a 6-month remote contract with ClinSearch (France); built Spring Boot microservices and an Angular frontend.

TECHNICAL SKILLS

Programming Languages: Java (primary), JavaScript/TypeScript, SQL, PHP/Laravel.

Frontend: Next.js, React, Tailwind CSS, shadcn/ui, JavaFX.

Databases: PostgreSQL, MySQL, PostGIS; schema design, query optimization, indexing (B-tree, GiST), performance tuning.

Backend: Spring Boot, Spring Security, Spring Data JPA, Hibernate, MyBatis, REST APIs, CQRS, microservices architecture.

Messaging & Caching: Apache Kafka for inter-service communication; Redis and Caffeine for distributed and in-memory caching.

Cloud & DevOps: CI/CD via Git-triggered deployments (Vercel auto-deploy, Linux VPS); Jenkins (familiarity); DigitalOcean Spaces (S3), AWS SES, Stripe (webhooks, refunds), Maven, Docker.

Testing: JUnit 5, Mockito; automated unit and integration testing of services and REST endpoints.

Tools & Collaboration: Git, GitHub, Jira, Notion; Agile/Scrum workflow, pull request reviews, sprint planning.

LANGUAGES

English: Fluent.

Arabic: Native.

French: Conversational.

EDUCATION

Bachelor of Engineering in Computer and Communication Engineering

Antonine University — 2024