

Ayman Ashraf Mounir

Software Engineer

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Summary

Software Engineer with around one year of hands-on experience building Java backend systems, serverless SaaS platforms, and full-stack applications. Strong foundation in Object-Oriented Design and SOLID principles, with experience shipping RESTful APIs, refactoring codebases for performance and maintainability, and working in Agile/SCRUM teams. Currently expanding into AI evaluation and benchmarking work.

Experience

Software Engineer (Backend Focus)

Jul 2025 – Present

Freelance

- Designed and shipped backend systems and RESTful APIs with **Java Spring Boot** for multiple client projects.
- Owned the full lifecycle from requirements through deployment and production support.

AI Evaluation & Benchmarking Contributor

May 2025 – Present

Freelance / Contract — AfterQuery, Terminal-Bench (Remote)

- Authored and reviewed technical task specifications to benchmark large language models on agentic and coding tasks.
- Designed verification criteria and edge cases to test model reasoning, correctness, and reliability.

Junior Software Engineer

Oct 2025 – Mar 2026

Blitz Armada, Cairo, Egypt

- Built backend features and contributed to system architecture for enterprise applications.
- Collaborated with cross-functional teams to ship production-ready features and improve infrastructure performance.

Software Engineer Intern

Jul 2025 – Oct 2025

AZM Squad, Cairo, Egypt

- Developed backend microservices with **Java Spring Boot** and integrated them with frontend systems.
- Worked in Agile/SCRUM teams across sprint planning, reviews, and collaborative development.

Software Engineer Intern

Oct 2023 – Feb 2024

Siemens Digital Industries Software, New Cairo, Egypt

- Built high-performance desktop applications using **C++** and **Qt**.
- Optimized memory usage and system performance through profiling and refactoring.

Education

Faculty of Computers and Artificial Intelligence, Cairo University

Sep 2021 – Jul 2025

Bachelor's Degree in Computer Science

Technical Skills

- **Languages:** Java, C++, Python, TypeScript, JavaScript, HTML5, CSS
- **Frameworks & Libraries:** Spring Boot, JPA, React, Next.js, Hono
- **Databases:** PostgreSQL, MySQL, SQL Server, SQLite
- **DevOps & Tools:** Git/GitHub, Docker, Nginx, Maven, Apache Tomcat, JIRA
- **Cloud:** AWS, Cloudflare (Workers, Pages, D1, R2), Firebase Authentication, Google Vertex AI
- **Testing:** Mockito, Vitest, Playwright, Miniflare
- **Concepts:** REST APIs, Microservices, Multi-tenancy, RBAC, CI/CD, Agile, Spring Security, Web Services (HTTP, JSON)

Projects

Helixtra – Multi-Tenant Clinic Management SaaS

helixtra.com

- Built a full-stack clinic management SaaS with **React**, **TypeScript**, **Hono**, and **Cloudflare Workers**, covering patient records, appointment scheduling, clinical encounters, and billing.
- Designed per-clinic isolation with dedicated **Workers**, **D1 databases**, and **R2 storage**; implemented role- and branch-scoped API permissions and idempotent invoice and payment workflows.

WearInstant – Virtual Try-On SaaS (*In Development*)

wearinstant.com

- Developed a multi-tenant virtual try-on backend using **TypeScript**, **Cloudflare Workers**, and **PostgreSQL**, with **Firebase** authentication and validated private image uploads to **R2**.
- Implemented a **Vertex AI** adapter and asynchronous job processing with idempotent requests, usage quotas, a transactional outbox, and recovery logic; tested concurrency and failure scenarios using PostgreSQL and **Miniflare**.

BlitzChatbot – Multi-Tenant WhatsApp Automation Platform

- Built a multi-tenant WhatsApp automation platform with **Java Spring Boot** and **React/Vite**, with tenant-isolated messaging APIs.
- Implemented **WebSocket** real-time updates and secure webhook validation for reliable third-party integration.

E-Commerce & Pharmacy Operations Platform

arkedaiinternational.com

- Engineered a production-grade full-stack platform with **Java Spring Boot** and **React/Vite** for storefront and admin workflows: products, orders, payments, loyalty, and reporting.
- Built secure role-based RESTful APIs and deployed with **Docker**, **Nginx**, **PostgreSQL**, and **Redis**, with multilingual support and production monitoring.

Artline – AI-Powered Multimodal Web App

- Built a web app that transforms regular photos into immersive 360-degree panoramas using **React**, **Java Spring Boot**, and Google **Gemini**'s multimodal capabilities.
- Implemented an interactive panorama viewer with client-side stitching (**OpenCV.js**) and real-time image enhancement controls.

Hala Kazim – Retreat Booking Platform

halakazim.com

- Built and deployed a production full-stack booking website using **Next.js**, **TypeScript**, **Prisma**, and **PostgreSQL**, live at halakazim.com.
- Implemented JWT-based authentication and a responsive UI with **Tailwind CSS**, delivered end-to-end for a real client.

Quantitator – Optimization System

github.com/aymanashrafmounir/Quantitator

- Built backend components integrating **Java** services with Python optimization modules via inter-process communication.
- Followed **TDD** with **Mockito** on a **PostgreSQL**-backed service-layer architecture.

Secure Notes Organizer – Desktop App

github.com/aymanashrafmounir/Secure-Notes-Organizer

- Built an encrypted storage system with secure client-server communication over sockets.
- Refactored the codebase to optimize memory usage and improve system stability by 15%.

Licenses & Certifications

- Full Stack Web Development Mentorship – Deloitte (Sep 2024)
- Linux Fundamentals Trainee – Orange Digital Center Egypt (Sep 2024)
- Artificial Intelligence Training – Huawei ICT Academy, Cairo University (Sep 2023)

Achievements

- Participant – ICPC ECPC Qualifications (2023): Competed in a regional programming contest, solving algorithmic problems under time pressure.