

HASAN MASOUD

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SUMMARY

Backend engineer and technical founder with hands-on experience architecting scalable, multi-tenant microservices platforms using Java, Spring Boot, and distributed-systems design principles. Owns systems end-to-end — from architecture and security through CI/CD and production operations — driving measurable gains in reliability and release velocity.

EXPERIENCE

Founder & Lead Software Engineer | **Qawi** — Amman, Jordan

Jun 2025 – present

- Architected and led end-to-end development of a production-ready, multi-tenant SaaS platform for gym management.
- Designed and built 100+ scalable REST APIs (Java, Spring Boot, Spring Security, JWT, PostgreSQL, Docker) with high availability.
- Designed a multi-tenant architecture with tenant isolation, RBAC, subscription management, analytics, and feature-flag rollout.
- Built React and React Native apps with Arabic/English localization and RTL support for GCC and Levant markets.
- Provisioned and managed production AWS infrastructure (EC2, RDS, S3 + CloudFront, Route 53, CloudWatch, WAF) with Redis, automated backups, and monitoring (Sentry, UptimeRobot).
- Drove technical strategy and architecture decisions, instilling best practices for coding standards and code review.

Software Development Engineer & DevOps | **Wiley / Atypon** — Amman, Jordan

Nov 2024 – May 2025

- Designed, built, and maintained 5 Spring Boot microservices for publishing workflows across a distributed platform.
- Drove operational excellence by introducing Docker and CI/CD pipelines with GitHub Actions, cutting deployment time by 30%.
- Developed secure, role-based REST APIs using Spring Security and JWT for high-availability production services.
- Collaborated with engineers in Agile sprints to plan, prioritize, and deliver stable features on tight schedules.

Backend Engineering Training (Java & Spring Boot) | Amman, Jordan

Aug 2023 – Aug 2024

- Completed hands-on mentorship with a senior software engineer focused on backend development.
- Built multiple backend applications using Java, Spring Boot, and REST APIs
- Learned and applied design patterns, system design fundamentals, distributed systems concepts, and asynchronous processing.
- Focused on writing clean, maintainable code and understanding how real systems are structured

PROJECTS

Collaborative Code Editor | Java · Spring Boot · React · TypeScript · WebSocket · JWT · Spring Security · Docker

- Built a real-time collaborative editor supporting multiple users with live updates using WebSockets
- Designed concurrency-handling logic to manage simultaneous edits and keep documents consistent across distributed clients
- Implemented role-based access control (Owner, Edit, View)
- Used Docker to isolate execution environments

Online Judge System | Java · Spring Boot · PostgreSQL · Judge0 API

- Designed an asynchronous, scalable architecture to handle concurrent code submissions reliably under load
- Integrated Judge0 API for secure code execution
- Improved database performance with indexing and query optimization; added retry mechanisms for reliability.

EDUCATION

Yarmouk University — B.S. Computer Information Systems

Oct 2021 – Jun 2025

ACHIEVEMENTS

- JCPC 2024: Ranked 9th / 120+ teams (Top 5%) — qualified for ACPC Regional Championship.
- Coached 100+ university students in competitive programming; 3 advanced to JCPC under direct mentorship.

TECHNICAL SKILLS

Languages: Java, C++, Python, SQL, Bash, React, TypeScript, Next.js, .NET

Frameworks: Spring Boot, Spring Security, REST APIs, WebSocket, Microservices Architecture

DevOps: Docker, GitHub Actions CI/CD, Git, AWS (EC2, RDS, S3, CloudFront, Route 53, CloudWatch, WAF), Cloudflare

Databases: PostgreSQL, Redis, Database Design & Query Optimization

Core CS: Distributed Systems, System Design & Architecture, Scalability & Reliability, Concurrency & Multithreading, Data Structures & Algorithms, Functional Programming