

# Ahmad Saleh

## Backend Software Engineer

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## PROFESSIONAL SUMMARY

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Backend Software Engineer with 4 years of experience developing high-performance enterprise systems in C, specializing in memory-efficient programming, Oracle/Cassandra optimization, and production troubleshooting. Strong foundation in low-level software engineering, complemented by modern backend development using Java, Spring Boot, MongoDB, and AWS. Combines low-level systems expertise with scalable application development to build reliable, high-performance backend solutions.

## WORK EXPERIENCE

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### Backend Software Engineer (C)

#### ProGineer Technologies

08/2022 – Present

Ramallah, Palestine

- Delivered backend services in C for performance-critical, memory-sensitive production systems across 5+ major projects with a team of 20 engineers
- Cut critical Oracle query runtime from ~2 hours to 1–4 seconds (99.9% faster) through restructuring, indexing, and execution-plan analysis
- Reduced another heavy query from 50 minutes to 3–5 seconds (99.8% faster) by rewriting joins, adding strategic indexes, and simplifying the query plan
- Accelerated a Cassandra API with parallelism, cutting runtime from 26s to 6s across 10,000 executions (77% faster)
- Modeled and managed databases with millions of records and 100+ tables across multiple schemas; designed 20 new tables for 2 major projects
- Drove 10–15+ production incident resolutions and performance fixes, including an on-prem optimization for an Asian customer that restored stability and earned strong client satisfaction
- Debugged production issues in constrained on-prem environments with no cloud access, using log analysis and system-level investigation to restore service
- Built and extended OpenSearch data-generation pipelines and structured document payloads (field normalization/denormalization) to keep source systems and search indexes aligned
- Partnered with cross-functional engineers on backend design and system-behavior decisions for scalability and correctness

**Technologies:** C, Oracle SQL, Cassandra NoSQL, OpenSearch, Informix

### Software Engineer

#### Bloom – Venue Booking Platform · Personal Project · [GitHub](#)

Designed and developed a production-ready venue booking platform from the ground up using Spring Boot 3.4 (Java 17). Architected secure server-side REST APIs with JWT authentication, MongoDB, AWS cloud infrastructure, and clean architecture, delivering core features including user management, venue management, bookings, offers, notifications, CI/CD, and cloud deployment. Built as a real-world product with a strong focus on scalability, maintainability, and production-quality engineering.

- Built a server-side Spring Boot REST API with layered clean architecture (Controllers → Services → Repositories → MongoDB) for Auth, User, Venue, and Offer domains
- Implemented JWT authentication with access/refresh tokens, BCrypt password hashing, RBAC (ADMIN/USER/OWNER/CUSTOMER), and a reusable Ownable/isOwner() check with @PreAuthorize
- Modeled MongoDB documents with soft deletes and a shared BaseEntity (IDs, audit timestamps, translation support); added custom queries and DTO mapping
- Delivered database-driven multi-language responses (EN/AR/HE) via Accept-Language resolution and nested translation maps—no schema migrations to add languages

- Added Jakarta Bean Validation with a custom @EnumTypeExists validator, global exception handling, and Swagger/OpenAPI docs
- Deployed the server-side API to AWS cloud (EC2, S3), set up CI/CD for build and release, and integrated Firebase plus an OpenAI chatbot for personalized suggestions

**Technologies:** Java 17, Spring Boot 3.4, Spring Security, Spring Data MongoDB, JWT, AWS (EC2/S3), CI/CD, Firebase, OpenAI, Swagger/OpenAPI, Maven

PROJECTS

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**Mentoring System**  
Graduation Project

Full-stack mentorship platform matching students with mentors by skills and career goals, with task management and progress tracking.

- Designed and implemented a recommendation algorithm using skill-based matching and career-goal analysis
- Built RESTful APIs for mentor–student matching, task management, and progress tracking
- Secured the platform with Spring Security and designed MySQL/JPA schemas optimized for recommendation queries

**Technologies:** Java, Spring Framework, Spring Security, JPA/Hibernate, MySQL

EDUCATION

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| <b>Bachelor of Computer Science</b><br>An-Najah National University · Nablus, Palestine | 09/2018 – 06/2022<br>GPA 3.0/4.0 |
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TECHNICAL SKILLS

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**Backend:** C, Java, Spring Boot, Spring Security, REST APIs, Server-Side Development  
**Data:** Oracle SQL, Cassandra, MongoDB, OpenSearch, Query Optimization  
**Cloud & Ops:** AWS (EC2/S3/ALB), CI/CD, Linux, Git, Performance Tuning, Production Debugging

LANGUAGES

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**Arabic:** Native · **English:** Fluent