Ammar Dwidari

Software Engineer | Backend & Full-Stack Developer
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PROFESSIONAL SUMMARY

Software Engineer specializing in secure, enterprise-grade backend systems with Java and Spring Boot, with full-stack delivery across JavaScript/TypeScript, React, and Next.js. Completed a B.Sc. in Software Engineering, finishing a 5-year curriculum in 3.5 years, and won 1st place at the UPM Programming Competition 2025. Solo-architected an A+ capstone logistics platform and shipped production RESTful APIs during a software engineering internship at Rawafed Tech.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, Python, PHP, C, SQL

Backend: Spring Boot, Spring Security, Spring Data JPA, Hibernate, RESTful APIs, JWT, Django, Node.js, Laravel, Thymeleaf

Frontend: React, Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap

Databases: MySQL, PostgreSQL

Cloud & DevOps: AWS, Azure, Docker, Linux, Git, GitHub, Vercel

Testing & Tools: JUnit, JMeter, Katalon Studio, Postman, Jira, Trello

Concepts: Agile/Scrum, REST API Design, OOP, RBAC, Multi-Factor Authentication, STRIDE Threat Modeling

WORK EXPERIENCE

Software Engineering Intern, Rawafed Tech — Jun 2025 – Aug 2025

- Developed production-ready RESTful APIs for a modular HR Management System using Java and Spring Boot, translating complex user stories into backend modules within an Agile/Scrum workflow.
- Engineered a self-referential entity model with Hibernate to support infinite nested organizational hierarchies while preserving data integrity across parent-child boundaries.
- Built a secure binary document-storage subsystem (MySQL LONGBLOB) that couples legal metadata with file contents for full auditability of sensitive personnel records.
- Optimized the persistence layer with @Transactional boundaries and precision fetch strategies, eliminating N+1 query overhead, and secured endpoints with Spring Security and JWT authentication.

TECHNICAL PROJECTS

SpeedIt — Inventory & Order Management Platform (Capstone) | Java, Spring Boot, MySQL, Hibernate, JavaScript — 2025

- Solo-architected and built an enterprise supply-chain platform end to end — the design, development, and documentation typically assigned to a 3–5 student team — earning an A+ grade.
- Engineered an intelligent stock-allocation algorithm that parses Google Maps coordinates via OpenRouteService to optimize multi-point fulfillment, cutting manual record-keeping time by 40%.
- Designed a recursive 'Pallet-to-Item' relational schema (Hibernate/MySQL) delivering real-time, single-pane inventory visibility with 100% volume-constraint compliance.

PICMS — Inpatient Care Management System | Java, Spring Boot, AWS, Docker, MySQL — 2025

- Built a Smart Nurse-Call engine that routes emergency requests to the least-occupied staff using real-time, priority-weighted workload logic.
- Deployed a highly available, horizontally scaled architecture on AWS (RDS Multi-AZ, Auto Scaling Groups) with Dockerized Java services for zero-downtime, mission-critical operation.
- Implemented full-lifecycle state-machine logic and role-based access control (RBAC) across decentralized ward units.

SERB Group — Bilingual Corporate Platform | Next.js, React, TypeScript, Tailwind CSS, GSAP, Three.js — 2026

- Engineered a motion-first, bilingual (Arabic/English) platform with fully mirrored RTL/LTR layouts and no directional layout breakage.
- Integrated interactive Three.js 3D scenes with GSAP scroll orchestration while sustaining 60 FPS.

Additional: Academic Progress Tracking System (Java, Spring Boot, React) — implemented Multi-Factor Authentication (email OTP, JWT, reCAPTCHA), RBAC, and STRIDE threat modeling within a Defense-in-Depth architecture.

EDUCATION

B.Sc. in Software Engineering, University of Prince Mugrin, Madinah, Saudi Arabia — Jan 2026

- Completed an accelerated 5-year Software Engineering curriculum in 3.5 years.

AWARDS & CERTIFICATIONS

1st Place — UPM Programming Competition 2025

Networking Essentials — Cisco

Database Design — Oracle