

MUHAMMAD AHSEN

Software Engineer – Java / Spring Boot | Full-Stack Developer

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PROFESSIONAL PROFILE

Fresh Information Technology graduate (GPA 3.88/4.0) with strong object-oriented programming foundations from coursework and a track record of shipping production-grade systems end-to-end. Built CapTrak, a multi-tenant enterprise platform with 30+ REST API endpoints, relational database design, role-based access control, and Docker-based deployment – demonstrating the same architectural thinking (clean layering, API design, data modeling) that underlies enterprise Java/Spring Boot development. Comfortable with SQL, REST API design, Git workflows, and Agile/Scrum delivery from professional internship experience. Quick learner seeking to apply strong OOP fundamentals and full-stack engineering discipline to a Java/Spring Boot role.

TECHNICAL SKILLS

Languages & OOP: Java (OOP – classes, inheritance, polymorphism, encapsulation), JavaScript (ES6+), TypeScript
Backend / Frameworks: Spring & Spring Boot (academic exposure), Node.js, Express.js, REST API Design, JWT, Passport.js
Databases: SQL, PostgreSQL, MySQL, Prisma ORM, schema design, migrations, query performance tuning
Frontend: React.js (v18), HTML5, CSS3, Tailwind CSS, React Router DOM, Vite
Tools & Practices: Git, GitHub, Docker, Docker Compose, Playwright (E2E testing), CI workflows, code reviews
Methodologies: Agile / Scrum, sprint planning, feature branching, daily standups, software design principles

PROFESSIONAL EXPERIENCE

Software Engineering Intern – Centnine

Jun 2025 – Aug 2025

- Contributed to multiple live, client-facing web applications, shipping features directly to production within Agile sprint cycles.
- Built a library of reusable, responsive UI components following clean object-oriented and component-based design principles.
- Integrated frontend interfaces with backend REST APIs, including data fetching, loading states, and full error handling.
- Collaborated in daily standups, task estimation, sprint reviews, and PR-based code reviews – professional software engineering practices applicable across languages and stacks.

React Developer – Training Program, VirtualSoft

Nov 2024 – Feb 2025

- Built multiple SPAs using component-based architecture and modern state management patterns; applied Git version control and professional code review workflows from day one.
- Strengthened core programming fundamentals (ES6+, structured problem-solving) through deadline-driven, project-based work.

KEY PROJECT

CapTrak – Multi-Tenant Capstone Management System (Final Year Project)

- Architected an enterprise-grade full-stack system with clean separation across controllers, services, routes, and middleware – the same layered architecture pattern used in Spring Boot applications.
- Designed a relational PostgreSQL schema with ORM-based data access; implemented multi-tenancy with complete data isolation across multiple organizations under a single deployment.
- Built 30+ RESTful API endpoints covering authentication, role assignment, milestone tracking, file submissions, and progress monitoring – hands-on REST API design experience directly transferable to Spring-based backends.
- Implemented full authentication: Google OAuth 2.0, JWT sessions, bcrypt hashing, and OTP-based password reset flows.
- Designed 4 role-based portals (Admin, Coordinator, Supervisor, Student) with distinct dashboards and permission scopes, applying core OOP and access-control principles.
- Containerized entire infrastructure with Docker & Docker Compose; wrote an automated end-to-end test suite with Playwright.

github.com/M-Ahsen/captrak

EDUCATION

BS – Information Technology

2022 – 2026

Khawaja Fareed University of Information and Technology, Rahim Yar Khan

GPA: 3.88 / 4.0 (Top of cohort)

Relevant Coursework: Object-Oriented Programming (Java), Data Structures & Algorithms, Database Systems, Software Design & Engineering