

MUHAMMAD AHSEN

Full-Stack / MERN Stack Developer

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PROFESSIONAL PROFILE

Full-Stack Developer with proven ability to design, build, and ship complete production systems from database schema through REST API to polished, responsive UI. Delivered a multi-tenant enterprise platform serving multiple universities simultaneously with real-time document collaboration, Google OAuth 2.0, automated testing, and Docker-based deployment. Currently completing a BS in Information Technology (GPA: 3.87/4.0), graduating 2026. Committed to clean architecture, high code quality, and continuous learning.

TECHNICAL SKILLS

Frontend: React.js (v18), TypeScript, JavaScript (ES6+), Tailwind CSS, HTML5, CSS3, Vite, React Router DOM

Backend: Node.js, Express.js, REST API Design, JWT, Passport.js, bcrypt, Nodemailer

Databases: PostgreSQL, MySQL, Prisma ORM, schema design, migrations, performance tuning

Auth & Security: Google OAuth 2.0, JWT sessions, OTP flows, bcrypt password hashing

DevOps & Tools: Docker, Docker Compose, Git, GitHub, Playwright (E2E testing)

Methodologies: Agile / Scrum, code reviews, sprint planning, feature branching, CI workflows

PROFESSIONAL EXPERIENCE

Web Developer — Centnine

Jun 2025 – Aug 2025

- Contributed to multiple live, client-facing web applications using React.js and JavaScript, shipping features directly to production.
- Built a library of reusable, responsive UI components aligned with client design specs and cross-browser compatibility standards.
- Integrated frontend interfaces with backend REST APIs data fetching, loading states, and full error handling.
- Collaborated in Agile sprint cycles: daily standups, task estimation, sprint reviews, and PR-based code reviews.

React Developer — Training Program — VirtualSoft

Nov 2024 – Feb 2025

- Built multiple SPAs using React Hooks (useState, useEffect, useContext) and component-based architecture.
- Applied Git version control and participated in professional code review workflows from day one.
- Strengthened JavaScript ES6+, HTML5, and CSS3 fundamentals through deadline-driven, project-based work.

PROJECTS

CapTrak — Multi-Tenant Capstone Management System (Final Year Project) · github.com/M-Ahsen/captrak

Stack: React 18, TypeScript, Node.js, Express.js, PostgreSQL, Prisma ORM, Docker, JWT, Google OAuth 2.0, Tailwind CSS, Playwright, Nodemailer

- Architected an enterprise-grade full-stack SPA: React 18 + TypeScript frontend, Node.js + Express.js backend, with clean separation across controllers, services, routes, and middleware.
- Designed a relational PostgreSQL schema with Prisma ORM; implemented multi-tenancy with complete data isolation across universities under a single deployment.
- Built 30+ RESTful API endpoints covering auth, group management, supervisor assignment, milestone tracking, file submissions, and progress monitoring.

- ▶ Integrated OnlyOffice Document Server (Docker) for real-time, in-browser collaborative document editing with JWT-secured sessions and automated save callbacks.
- ▶ Implemented full auth: Google OAuth 2.0, JWT sessions, bcrypt hashing, OTP-based password reset (6-digit, 10-min expiry), and multi-step onboarding flows.
- ▶ Designed 4 role-based portals (System Admin, Coordinator, Supervisor, Student) each with distinct dashboards and permission scopes.
- ▶ Enabled bulk account creation for up to 100 students / 50 supervisors per batch via Excel/CSV upload with auto-generated credentials sent via Nodemailer.
- ▶ Containerized entire infrastructure with Docker & Docker Compose; wrote automated end-to-end test suite with Playwright.

EDUCATION

BS — Information Technology

2022 – 2026

Khawaja Fareed University of Information and Technology, Rahim Yar Khan

GPA: 3.87 / 4.0 (Top of cohort)

WHAT I BRING

- ▶ End-to-end ownership — I have taken a project from blank repo to production-deployed, multi-tenant application solo.
- ▶ Real API design experience — not tutorials. 30+ endpoints, role-based auth, file handling, bulk operations.
- ▶ Team-ready — Agile sprints, PR reviews, and daily standups at Centnine; not just a solo developer.
- ▶ Fast learner — picked up Docker, Playwright, OnlyOffice integration, and multi-tenancy architecture within a single project cycle.
- ▶ High academic performance (GPA 3.87) alongside real-world project delivery — demonstrating both theoretical grounding and practical execution.