

Ahtsham Adil

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SUMMARY

Full-Stack Developer with hands-on experience building and deploying production MERN stack applications. Proficient in API design, authentication systems, real-time communication, and modern React UI development. Seeking full-stack or backend engineering roles.

TECHNICAL SKILLS

Languages: JavaScript, Python, C++, SQL
Frontend: React.js, Tailwind CSS, Chart.js, Framer Motion, Vite, HTML/CSS
Backend: Node.js, Express.js, Socket.io, REST APIs, JWT Authentication
Databases: MongoDB (Mongoose, Aggregation Pipelines), MySQL
Cloud & DevOps: AWS (EC2), Vercel, Render, Docker, Nginx, Linux, Git
Tools: Postman, Cloudinary, MongoDB Atlas, VS Code

PROJECTS

- FarmKconnect (Final Year Project)** | [Live Demo](#) | [GitHub](#) 2025 – 2026
- Led a 4-person team to build a **full-stack agricultural marketplace** (React, Node.js, MongoDB, Docker, AWS) serving 50+ cities with real-time chat and price intelligence.
 - Developed crop listings with Cloudinary uploads, advanced search/filtering, COD transactions with order lifecycle, and a buyer-seller review system.
 - Engineered **real-time messaging and notifications** using Socket.io with JWT auth, supporting price negotiation workflows between farmers and buyers.
 - Built a **Python web scraper** collecting daily commodity prices from 50+ cities (AMIS Pakistan) with cron scheduling and configurable email/WebSocket price alerts.
 - Implemented **Repository Pattern (DAL)** with optimized MongoDB aggregation pipelines for scalable data access.
 - Deployed on **AWS EC2** using Docker Compose, Nginx reverse proxy, and Let's Encrypt SSL with auto-renewal.
- NexStock – Inventory & Stock Management** | [Live Demo](#) | [GitHub](#) 2025 – 2026
- Built a full-stack inventory platform (React 19, Express 5, MongoDB) managing **24+ SKUs across 8 categories** with a glassmorphic dark UI and Framer Motion animations.
 - Implemented **RBAC with 3 roles** (Admin, Store Manager, Employee) enforcing permissions on both frontend route guards and backend middleware.
 - Designed RESTful APIs with express-validator, centralized error handling, server-side pagination, and debounced search.
 - Secured with **JWT httpOnly cookies**, Helmet, bcrypt, CORS policy, and rate limiting (300 req/15min); configured cross-domain auth for Vercel + Render.
 - Created an **analytics dashboard** with 4 Chart.js visualizations: stock levels, category distribution, transaction trends, and inventory value.
 - Integrated Cloudinary for image uploads; deployed on **Vercel + Render + MongoDB Atlas**.

EDUCATION

University of Management and Technology
Bachelor of Science in Computer Science

Lahore, Pakistan
Expected Graduation: July 2026

CERTIFICATIONS

The Web Developer Bootcamp 2025 – Colt Steele, Udemy – [View Credential](#)