

MUHAMMAD AHMAD

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Computer Engineering Student | Focus: Backend Development & DevOps

OBJECTIVE

6th semester Computer Engineering student at COMSATS University with a passion for backend development and DevOps. Experienced in building REST APIs with Node.js and Express, working with SQL and NoSQL databases, and exploring cloud services on AWS. Seeking internship opportunities to contribute to real-world engineering teams.

EXPERIENCE

Innovative Saudia

Jul 2025 – Aug 2025

Backend Engineer Intern

Lahore

Daily Progress Log & Work

- Learned backend and DevOps practices under the guidance of experienced professionals.
- Documented daily progress and key learnings to track skill growth.
- Prepared for the AWS Cloud Practitioner certification, completing multiple mock tests.

Self-Employed

2024 – Present

Freelance Web Developer

Lahore

- Completed 1+ freelance projects for local clients, handling deployment and hosting.
- Gained practical experience in client communication and project management.

EDUCATION

COMSATS University Islamabad, Lahore Campus

2023 – 2027

Bachelor of Computer Engineering

Lahore

CGPA: 3.6/4.0 | 6th Semester

PROJECTS

Multi-Buyer & Vendor E-Commerce Platform

GitHub | Live Demo

- Built a full-stack e-commerce app with multi-role support (Buyer, Vendor) using 3-tier architecture.
- Implemented authentication, order management, and REST APIs with Node.js and Express.js.
- Tech stack:** React, Node.js, Express.js, SQL Server.

Serverless User Processing System

GitHub | Live Demo

- Developed a React frontend with a serverless backend using AWS Lambda triggered by API Gateway.
- Integrated DynamoDB for data storage and hosted on S3 as a static website.
- Tech stack:** React, AWS Lambda, API Gateway, DynamoDB, S3.

Real-Time Smart Room Automation System

GitHub

- Built an embedded system using STM32F407 with RFID access, motion detection, and temperature monitoring.
- Implemented multi-sensor data fusion with real-time LCD feedback and buzzer alerts.
- Tech stack:** STM32F407, C/Embedded C, HAL Library, I2C, SPI, ADC, DMA.

TECHNICAL SKILLS

- Languages:** JavaScript, Python, C, C++, SQL, VHDL.
- Backend:** Node.js, Express.js, REST APIs, MongoDB, SQL Server.
- Frontend:** React, Next.js, Tailwind CSS, HTML/CSS, Framer Motion.
- Cloud & DevOps:** AWS (Lambda, S3, DynamoDB, API Gateway), Docker, GitHub Actions, Vercel, Linux, Git.
- Hardware:** STM32, Microcontrollers, FPGA (VHDL), Embedded Systems.
- Tools:** VS Code, Postman, MongoDB Compass, Figma, Chrome DevTools.