

Muhammad Mufeez

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EDUCATION

FAST National University of Computer and Emerging Sciences (NUCES)

Karachi, Pakistan

Bachelor of Science in Computer Science

Expected Graduation, June 2027

- o **Concentrations:** Artificial Intelligence & Software Systems
- o **GPA:** 3.68/4.00, *Dean's List*
- o **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Systems, Recommender Systems, Artificial Intelligence, Probability & Statistics, Information Retrieval

EXPERIENCE

BoxTech

Karachi, Pakistan

Backend Developer

Jan 2026 - Feb 2026

- Built a Node.js MQTT server to process and transform real-time device data.
- Developed and maintained scalable REST APIs powering the production web app.
- Implemented robust data handling, logging, and error management for reliable IoT services.

FAST National University of Computer and Emerging Sciences (NUCES)

Karachi, Pakistan

Student Lab Assistant (CL1002: Programming Fundamentals)

Sep 2025 - Dec 2025

- Guided students in C programming, debugging, and algorithmic thinking.
- Assisted faculty in refining lab materials and exercises.

National Center For Physics (AiTec Department)

Islamabad, Pakistan

Data Engineering Intern

July 2024

- Engineered a Kafka-based real-time data pipeline to stream and process multimodal sensor data (RGB + IR) using Python and Azure Kinect SDK.
- Studied supervised and unsupervised ML techniques to improve data-driven predictions.

PROJECTS

Yummaroo – Waste Reduction & Food Sharing Platform (Inspired by OLIO)

Karachi, Pakistan

Team Lead, Backend & Database developer

Dec 2025

- Designed and normalized a relational database with 10+ interconnected tables, implementing constraints and indexing to ensure data integrity, structured transactions, and scalable user management.
- Developed RESTful backend APIs with OTP authentication, geolocation filtering, and trigger-based automation to maintain secure interactions, consistent state transitions, and reliable platform operations.

FAST Wheels - Whatsapp Carpool Bot

Karachi, Pakistan

Co-Developer

Sep 2025

- Deployed Node.js + Express backend on DigitalOcean with MongoDB storage.
- Integrated WhatsApp via Baileys API with fuzzy ride matching logic.
- Supported 300+ registered users with automated ride cleanup and admin commands.

Hangman Game (GUI-Based Game)

Karachi, Pakistan

Team lead

Apr 2024 – May 2024

- Built a GUI-based Hangman game in C++ using the SDL2 framework for the OOP course.
- Applied object-oriented concepts (inheritance, encapsulation, event handling) to design modular game components.
- Improved gameplay responsiveness and rendering efficiency for smoother visual output.

ACTIVITIES AND LEADERSHIP

Coder's Cup 2025

Karachi, Pakistan

Competition Module Head

Nov 2025

- Developed a full-stack competition website used by 35+ teams using React.js (frontend) and Supabase (backend).
- Managed real-time participant tracking and technical coordination to ensure smooth event execution.

Developer's Day 2025

Karachi, Pakistan

Competition Module Co-head

Mar 2025 – Apr 2025

- Developed a full-stack platform powered by React.js and Supabase that supported more than 40+ competing teams.
- Oversaw live participant tracking and handle technical workflows to keep the event running smoothly.

SKILLS

Programming Languages: Python, C++, C, JavaScript, SQL, HTML/CSS

Frameworks & Libraries: React.js, Node.js, Express.js, Kafka, Pandas, NumPy, Scikit-learn, OpenCV, SDL2

Tools & Platforms: Git, Firebase, AWS, Supabase, Digital Ocean, Postgresql, mongodb

Core Areas: Full-Stack Development, Backend Development, Software Engineering, Data Engineering