

# ABDUL REHMAN ALI

## COMPUTER SCIENCE STUDENT | MERN STACK DEVELOPER

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### SUMMARY

Computer Science student at COMSATS University Lahore with hands-on experience in full-stack development using the MERN stack. Skilled in building responsive web applications with React, Node.js, Express, MongoDB, and REST APIs. Experienced with relational databases, including SQL and MySQL. Strong foundation in Java, Python, and C++. Familiar with Git, GitHub, and modern development practices. Passionate about software engineering and emerging technologies like AI and machine learning, seeking to apply practical skills in web development and related domains.

### TECHNICAL SKILLS

- **Programming Languages:** Java, Python, C++, JavaScript
- **Front-End:** HTML, CSS, React, Responsive Design, UI/UX basics
- **Back-End:** Node.js, Express, REST APIs, Full-Stack Development
- **Databases:** MongoDB, MySQL, SQL Server
- **Tools & Platforms:** Git, GitHub, VS Code, Postman
- **Concepts & Technologies:** Full-Stack Development, Responsive Design, OOP, Data Structures & Algorithms, Database Systems (SQL), AI & Machine Learning (basic exposure)

### PROJECTS

#### Tech Event Management System:

**Technologies:** React.js, JavaScript, HTML, CSS, Node.js, Express.js, MySQL

- Developed a **full-stack web application** for managing technology events, registrations, and participants
- Implemented RESTful APIs using Node.js and Express.js for event and user operations
- Designed and integrated a **MySQL** database for storing events, users, and registration records
- Created a responsive user interface using **React** for smooth user experience across devices

#### Expense Tracker Pro:

**Technologies:** React.js, Tailwind CSS, Node.js, Express.js, MongoDB, JWT

- Built a full-stack **MERN** application to track income and expenses with real-time balance updates
- Implemented secure authentication using JWT and bcrypt
- Developed **REST APIs** for CRUD operations on transactions with search and filtering features

#### Behavioral Cloning for Self-Driving Cars

**Technologies:** Python, TensorFlow/Keras, OpenCV, NumPy, Matplotlib, Udacity Simulator

- Developed a **CNN-based behavioral cloning model** to predict steering angles from road images
- Collected and preprocessed driving data using the **Udacity simulator** and OpenCV
- Trained the model on thousands of images using **Adam optimizer** for improved steering accuracy
- Tested the trained model on a **new simulator track**, achieving smooth lane-keeping and autonomous driving

### EDUCATION

#### Bachelors in Computer Science — COMSATS University Lahore

Feb 2024 - Present

- **CGPA: 3.83 (4<sup>th</sup> Semester)**
- Relevant Courses: Data Structures & Algorithms (Java), Database Systems, Object-Oriented Programming, Software Engineering, Computer Networks

#### Intermediate in Computer Science (ICS) — Superior College Lahore

2021-2023

- Marks: 950/1100 Grade A+

### CERTIFICATIONS

- NodeJS Masterclass (Express, MongoDB, OpenAI) — Udemy (Sujan Phokhrel)
- Learn PHP and MySQL for Web Applications — Udemy (Marcus Menti, Zechariah Tech)

### INTERESTS

Web Development, Software Engineering, Problem Solving, Emerging Technologies, AI & Machine Learning