

MUHAMMAD OWAIS

Computer System Engineer

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Address: Malir Saudabad Karachi, Pakistan

Profile Summary

A Computer System Engineer with extensive experience in web development, machine learning, and software engineering. Proficient in Python, JavaScript, and frameworks such as Django, React, and MERN Stack. Skilled in creating scalable, impactful solutions including full-stack applications and AI-powered systems. Recognized for delivering measurable outcomes and innovative problem-solving. Eager to drive advancements in technology through cutting-edge projects.

EDUCATION

NED University of Engineering and Technology

Bachelor of *Computer and Information System Engineering* (CGPA: 3.76/4.00)

Karachi, Pakistan

2022 - 2026

Adamjee Govt. Science College

HSC Pre-Engineering (Percentage: 92%)

Karachi, Pakistan

2020 - 2022

Professional Experience

National Center Of Artificial Intelligence, NED University

Computer Vision Intern:

Karachi, Pakistan

Feb 2024 – April 2024

- Created high-quality datasets by annotating vehicle images using Roboflow.
- Achieved a 95% detection accuracy by training YOLOv8 object detection models.
- Enhanced user experience of the NCAI portal with React front-end improvements.
- Improved dataset performance by applying advanced machine learning techniques on the Pak Wheel dataset.

Codsoft

Remote Python Intern:

Karachi, Pakistan

September 2023 – October 2023

- Developed five Django-based applications, including a calculator, phonebook, and password generator.
- Strengthened web development proficiency through hands-on projects.

Projects

Cafeteria Management System:

- Built a full-stack application for managing orders, customer details, and table reservations.
- Enabled real-time inventory updates and seamless payment processing.
- Designed an admin dashboard for monitoring and receptionist tools for efficient service. **Technologies:** Django, HTML, CSS, JavaScript, SQL

Social Media Platform:

- Engineered a feature-rich social media site with real-time notifications and interactions.
- Implemented a scalable friendship system supporting friend requests and mutual detection.
- Applied the MVC architecture to structure the application, ensuring separation of concerns between the models (database), views (UI), and controllers (business logic).
- Optimized database queries for enhanced back-end performance. **Technologies:** Django, Django REST Framework, React, WebSockets, SQLite

Cheque Sync (MERN Stack):

- Developed a secure cheque management platform with JWT-based authentication.
- Built RESTful APIs for validation and efficient record handling. **Technologies:** Node.js, Express.js, React, MongoDB

Exclusive Store Website:

- Developed a fully functional e-commerce platform using the **MERN stack (MongoDB, Express, React, Node.js)** for dynamic content and backend management.
- Integrated **Cloudinary.js** for seamless image upload and management, enhancing media handling and performance. Built a responsive and user-friendly interface for browsing and purchasing exclusive luxury products. Implemented modern web practices to ensure cross-device compatibility and smooth navigation. You can visit with the given link: [Exclusve](#)

Real time Chatapp:

- **Developed a real-time chat application** with features like secure messaging, user authentication, and live updates.
- **Implemented JWT authentication** for secure user login and **Socket.IO** for real-time communication.
- **Technologies: MongoDB, Express.js, React.js, Node.js, Socket.IO, JWT**

Additional

Technical Skills: Python, JavaScript, Django, Django Rest Framework, Node.js, React.js, Next.js, SQL, MongoDB, CSS, TailwindCSS, Data Structures and Algorithm, Object oriented programming.

Certifications: Machine Learning with Python (IBM)

Interests: Software Development, Web Development, AI, Machine Learning

Soft Skills: Effective Communication, Team Collaboration, Problem Solving, Time Management, SDLC.

Language: English, Urdu, German