

Muhammad Usman Saeed

Jr. Full Stack Developer & Artificial Intelligence Engineer

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Areas of Expertise

Software Development - Web Application Development - Mobile Application Development - Computer Vision - Natural Language Processing (NLP) - Machine Learning - Deep Learning - Generative AI

Skills

- **Languages:** Python, HTML, CSS, JavaScript, TypeScript, SQL, C++, Dart.
- **Technologies:** Firebase, Git, AWS, Docker, MongoDB.
- **Frameworks & Libraries:** ReactJS, Tailwind, NodeJS, Express, NestJS, Flask, FastAPI, Flutter, Firebase, Pandas, NumPy, Matplotlib, Tensorflow, PyTorch, OpenCV, LangChain.

Experience

Full Stack Developer, [\(CHI Tech\)](#)

Islamabad, Pakistan 7/2024 - 8/2024

- Designed and developed a truck logistics platform using NestJS and Flutter, enabling users to post truck requirements with pickup and drop-off details.
- Implemented a driver response system, allowing truck drivers to accept or bid on requests, similar to ride-hailing service workflows.

Data Analyst Intern, [\(Jazz\)](#)

Islamabad, Pakistan 12/2022 - 11/2023

- Utilized Python programming skills to develop automated solutions, streamlining data analysis processes and enhancing efficiency.
- Conducted data analysis to drive business insights, leveraging data to inform decision-making and support organizational objectives.

Projects

• LitterCam AI - AI-Powered Vehicle Litter Tracker

- Developed a computer vision system using YOLOv8 for real-time detection of litter and vehicles, ensuring accurate tracking in various environments.
- Integrated EasyOCR to recognize and extract license plate information from the detected vehicles involved in littering incidents.
- Designed a mechanism to identify the vehicle closest to the litter for efficient tracking and association of license plate details.

• WebChat - Q&A web app with live site data

- Built a web application that allows users to input a website link and perform question-answering based on its content.
- Utilized LangChain and Google Gemini API for advanced natural language processing and contextual understanding.
- Developed a Flask-based backend for seamless integration of the AI model and efficient processing of user queries.

• Project Management System

- Developed a project management system using the MERN stack (MongoDB, Express, React, Node.js) to enable efficient project tracking and collaboration.
- Implemented features for users to create, assign, and manage tasks, ensuring smooth workflow within teams.
- Styled the application with Tailwind CSS for a responsive and modern user interface.

- **Netflix-Clone**

- Developed a Netflix clone leveraging ReactJS and The Movie Database (TMDB) API for movie data.
- Added features like movie trailers with React-Youtube and Movie-Trailer.
- Ensured responsive design and smooth user experience by deploying on Firebase.

- **Chat Application**

- Built a real-time chat application using Flutter and Firebase, enabling instant messaging between users.
- Integrated Google authentication to provide seamless login and secure user management.
- Implemented push notifications to keep users informed of new messages and activity in real-time..

Education

BSc Computer Science [Bahria University](#)

Islamabad, Pakistan 2021-2025

CGPA: 3.40.

Online Courses & Certifications

- Deep Learning Specialization - [DeepLearning.AI](#)
- Machine Learning Specialization - [Stanford University, DeepLearning.AI](#)
- Introduction to Git and GitHub - [Google](#)