Muhammad Zubair Khan

Software Engineer

Software Engineer with practical experience in developing **AI-based web applications**, focusing on **Machine Learning, NLP,** and **Data Analysis**. Skilled in **Python**, **Django**, **Flask**, and the **MERN stack**, with a strong understanding of software design documentation, including **UML** and **SRS**.

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EDUCATION

Bachelor of Science in Computer Science
Namal University Mianwali

11/2021 - 06/2025   *3.11 CGPA*

Courses
- Object Oriented Programing Algorithms, Software Engineering, Parallel and Distributed Computing, Artifical Intelligence,Machine Learning, Discrete Mathematics, Operating System, Information & Cyber Security, Natural Language Processing

PERSONAL PROJECTS

AI Powered Interviewing System (FYP) ↗
- Built a **real-time AI Powered interviewing platform** using **Django, React, REST APIs,** and **PostgreSQL**, enabling candidate evaluation through **technical response** analysis and **confidence assessment**.

FreshMart-An Online Grocery Store (02/2025 - Present)
- Built a **full-stack e-commerce platform** using **MERN** stack with features like product listing, cart, checkout, and order management, along with a **responsive UI** using **ReactJS** and **Tailwind CSS** .

AI Powered Mood Trackor Journel (09/2024 - 03/2025)
- Developed an **AI-based** journaling platform using **Django**, **React**, **DRF, MySQL,** and **LLMs** to analyze user mood via **NLP** and **Web Speech API**, offering **personalized song recommendations** and **visual mood history** through **interactive dashboards**.

COLLABORATIVE DOCUMENT EDITING SYSTEM (10/2023 - 02/2024)
- Developed a **real-time document editing application** for **LAN** environments using **Socket.io** for **multi-client synchronization** and a user-friendly **GUI** with **Tkinter(python)**.

Social Media Platform (Facebook) (03/2022 - 06/2022)
- Developed a **mini social media application** in **Python** using **Tkinter**, featuring core functionalities like posting, liking, and user connections.

Custom NATURAL LANGUAGE UNDERSTANDING(NLU) Pipeline (06/2024 - 10/2024)
- Implemented **intent classification** with **DistilBERT** and **entity recognition** using **RoBERTa** by creating **custom-labeled datasets** and building a complete **NLP** pipeline with **preprocessing**, **tokenization**, and **classification** for **Natural language understanding**.

Urdu Ligature Recognition with deep learning (04/2024 - 06/2024)
- Built and evaluated **neural networks** with **AlexNet, VGG16, and BLSTM** for accurate **Urdu ligature recognition**, complemented by completed **research** on model optimization and performance analysis.

AI-Driven Cyber Attack Prediction and Prevention
- Leading a research initiative on applying **machine learning models** for ear**ly detection and prevention of cyber threats.**

SKILLS

Python · JavaScript · Django · Flask · React.js · Node.js · Express.js · Machine Learning · Deep learning · Data Analysis · Powerbi · Tensorflow · Keras · NLP · Tailwind CSS · Bootstrap · Postman · Git · REST APIs · MongoDB · PostgreeSQL · MYSQL

CERTIFICATES

Introduction to Python (Coursera)
Gained foundational skills in Python programming, including data structures and problem-solving.

Inter-University Hackathon Participant
Collaborated in a competitive hackathon, developing innovative solutions and gaining hands-on project experience.

Machine Learning Course (Great Learning)
Completed an in-depth course on supervised and unsupervised learning techniques with practical data analysis projects

Cybersecurity Fundamentals Course (Greate Learning)
Acquired essential knowledge in network security, threat assessment, and digital protection best practices.

Event Manager – Namal Computing Society
Coordinated and managed tech-related events and workshops, enhancing organizational and leadership skills within the student tech society.

LANGUAGES

English
Professional Working Proficiency

Urdu
Native or Bilingual Proficiency

INTERESTS

Machine learning Model training

Developing Web Application

AI-powered applications · Technology Exploring