

# 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, Artificial 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 Journal (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 early **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 PostgreSQL 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