Muhammad Zaid

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EDUCATION

National University of Sciences & Technology — **Rawalpindi, Punjab**

Bachelor of Science in Computer Engineering — November2021 - May 2025

Coursework

Object Oriented Programming, Data Structures, Databases, Digital Image Processing, AI & Decision Support Systems, Machine Learning, Mobile Development, Operating Systems, Computer Networks, Digital Signal Processing

TECHNICAL SKILLS

Languages: Python, C/C++, Java, javascript, SQL, Swift, Dart

Databases: MySQL , PostgreSQL

Tools & Technologies: Git, Github, CLI,

PROJECTS

Backend Developer | Emumba Internship — June - August 2024

- Designed and implemented scalable server-side logic to support core application functionality.
- Developed and maintained **RESTful APIs** to enable seamless communication between frontend and backend systems.
- Integrated and managed databases like [MongoDB] for efficient data storage, retrieval, and consistency.

AI Recruiter | Final Year Project — Python, NLP, RAG

- Built an intelligent resume parsing and scoring system that automated candidate evaluation, improved **shortlisting efficiency**, and **reduced manual screening effort**.
- Integrated Retrieval-Augmented Generation (RAG) to enable AI-driven candidate interviews, boosting relevant response accuracy through hybrid retrieval and generation.
- Generate **detailed candidate personas**, with thorough **insights** and **score** about weaknesses and strengths of each candidate.
- Deployed and tested the system with HR teams at RiseTech Company, significantly improving hiring speed and enabling continuous refinement through real-world feedback.

PLASTICC Astronomical Classification | Kaggle Competition

- Developed a **time-series classification model** to identify variable astronomical objects using simulated light curves from the PLAsTiCC dataset.
- Designed and trained a **Bidirectional GRU neural network** to process sequential flux data across 6 photometric bands, achieving accurate **classification score of 85%** across 14 known classes and an unseen “other” class.
- Implemented statistical **feature engineering** (mean flux, skewness, kurtosis, duration, redshift, extinction) to enhance model performance through a **dual-input neural architecture** combining RNNs with dense auxiliary features

Mentorship Connection Platform

- Developed MentorFlow, a platform that enhances learning by connecting mentors and mentees, featuring role flexibility and precise skill-based search functionalities.
- Streamlined mentorship interactions through milestone tracking, end-to-end encrypted chats stored on local SQLite Database, and intuitive design.
- Analyzed the framework's performance and iterated on the design to enhance accuracy, user management, and task completion speed.

Threat Detection in Airport Luggage

- Designed and developed a sophisticated AI framework for threat classification and segmentation in baggage screening processes.
- Utilized deep learning models, such as **convolutional neural networks**, to identify prohibited items.
- Analyzed the framework's performance and iterated on the design to improve accuracy and reduce false positives, achieving accuracy score of 92%.