

Maaz Mahmood

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EDUCATION

FAST NUCES, Lahore
B.Sc. Computer Science

Aug 2023 – Aug 2027

TECHNICAL SKILLS

Languages: Python, JavaScript, C, C++, SQL, Assembly (x86)

Frontend: React.js, HTML5, CSS3, Tailwind CSS

Backend: Node.js, FastAPI, Flask, REST APIs

Databases: PostgreSQL, Microsoft SQL Server, MySQL

ML / AI: scikit-learn, Pandas, NumPy, Sentence Transformers, HuggingFace Transformers, RAG Pipelines

Tools: Git, GitHub, VS Code, Postman, Linux, Docker, pgAdmin

PROJECTS

Resumify – AI-Powered Job Matching Platform

2026

Python · FastAPI · React · PostgreSQL · ML

- Built a full-stack recruitment platform with separate recruiter and candidate portals, enabling end-to-end job matching workflows.
- Developed an ML pipeline to parse resumes and rank candidates against job descriptions using NLP techniques.
- Designed RESTful APIs and PostgreSQL schema, and implemented role-based React dashboards for recruiters and candidates.

SAGE -- RAG-Based Mental Health Chatbot

2025

Python · HuggingFace Transformers · Sentence Transformers · BM25 · PyPDF2 · NumPy · Pandas

- Developed a domain-specific RAG chatbot using hybrid retrieval (BM25 + dense embeddings) for accurate response generation.
- Implemented a re-ranking pipeline with cross-encoders to improve retrieval precision.
- Designed a custom chunking and scoring strategy to prioritize actionable mental health guidance.
- Deployed fully local inference pipeline using open-source transformer models.

Stanford CS144 -- TCP/IP Network Stack Implementation

2024

C++ · Systems Programming · Network Protocols

- Implemented a full TCP/IP stack in C++, including byte stream, TCP sender/receiver, and network interface.
- Developed reliable data transfer and congestion control mechanisms.
- Built ARP-based IP routing across a simulated network environment.

SmartResolve -- University HelpDesk System

2026

Node.js · React · MSSQL · Express.js

- Built a full-stack university help desk platform for managing student complaints and support requests.
- Developed REST APIs with Node.js/Express and integrated a MSSQL database for ticket and user management.
- Designed role-based React dashboards enabling complaint submission, tracking, and administrative workflows.
- Implemented centralized issue management to streamline communication between students and university staff.

RELEVANT COURSEWORK

Data Structures & Algorithms · Object-Oriented Programming · Database Systems · Computer Networks · Operating Systems · Natural Language Processing · Software Engineering