MUHAMMAD SHAYAN MEMON

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OBJECTIVE

Motivated Computer Science student with RAG, OCR, and ELK Stack experience, proficient in Python, C++, and Java. Eager to join a forward-thinking team to build scalable, AI-driven solutions.

EDUCATION

BS Computer Science, FAST NUCES, Islamabad   Aug 2022–Present

SKILLS

Programming Languages: Python · C++ · Java · C
Machine Learning & AI: Retrieval-Augmented Generation (RAG) · LLMs · EasyOCR
Parallel & Distributed Computing: MPI · CUDA · GPU Acceleration
Data & Databases: SQL · MySQL · ELK Stack (Logstash, Elasticsearch, Kibana)
Soft Skills: Communication, Teamwork, Problem-solving, Adaptability

EXPERIENCE

AI Intern, Mercurial Minds, Islamabad   Jun–Aug 2024

- Contributed to a RAG-based project, enabling non-technical users to generate SQL queries from natural language using Large Language Models (LLMs).

- Implemented EasyOCR Python library for fast and efficient conversion of scanned PDFs and images into editable text.

- Utilized the ELK Stack to manage and analyze real-time Wi-Fi data for enhanced insights which improved efficiency by 80 percent.

Lab Demonstrator & Teaching Assistant, FAST NUCES   Aug 2024–Jan 2025
Assisted in CS-2006 (Operating Systems), CL1000 (Introduction to Information and Communication Technology)

HONORS AND AWARDS

- **High Achiever** – A Levels, **100% Merit Scholarship**, Roots Millenium School

PROJECTS

University Network – Cisco Packet Tracer, NAT, EIGRP, ACLs
FYP Portal – Final Year Project (FYP) Management Portal using JavaFX for the
user interface
Flex Gym Manager – C#, MS SQL
Pacman – Multi-threaded OS project
IPFS File System – DS project using BTrees, Distributed Hash Table
Pacman x86 – Game in Assembly
Space Shooter & Tetris – SFML in C++
Grocery Website – HTML/CSS

EXTRA-CURRICULAR

Volunteer – Fundraised for Shaukat Khanum Memorial Hospital
Vice Head Bug Catcher – Led the debugging competition with 70+ participants, managing event design, problem sets, and execution.
Vice Head, Events – Google Developer Student Club: – Organized tech events, workshops, and hackathons to engage and empower 100+ students.