

TOUSEEF AHMED

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TECHNICAL SKILLS

C++ / Python Azure (AKS, ML)
Docker & K8s CI/CD (DevOps)
SQL & Neo4j Llama 3 / NLP
CNN & GNNs SDLC / UML
AWS (EC2, S3) Linux / Bash

EDUCATION

BS Computer Science
Namal University Mianwali
2022 - 2026

RELEVANT COURSES

- Object Oriented Programming
- Data Structure & Algorithm
- Artificial Intelligence
- Machine Learning
- Cloud Computing
- Natural Language Processing
- Data Analysis & Visualization
- Software Engineering
- Operating Systems
- Cyber Security

INTERESTS

- Cloud Orchestration
- DevOps Engineering
- Generative AI & LLMs
- High-Performance Computing
- Full-Stack Automation
- Cybersecurity & Cryptography

CERTIFICATES

Google AI Essentials
GenAI tools & Prompt Engineering

Techverse 2026 Hackathon
4th Pos | Web Development Competition

Aspire Leaders Program
Harvard-funded Global Leadership initiative

Amal Career-Prep Fellow
Award-winning Mega Project Leadership

SUMMARY

Forward-thinking Computer Science graduate and AI & Cloud enthusiast with a passion for architecting scalable, intelligent systems. Hands-on experience in cloud orchestration (Azure, Docker), specialized AI research (Multi-modal Transformers, GNNs), and high-performance parallel computing. A lifelong learner dedicated to mastering emerging tech stacks like **.NET 9**, **Angular 20**, and **LLMs**.

WORK EXPERIENCE

DevOps Intern | Ebryx Private Limited Sep 2025 - Oct 2025
Developed automation scripts using **Bash** and **Linux** to **standardize** system environments. **Built** and **deployed** application hosting solutions on **AWS (EC2, S3, IAM)**. **Optimized** collaborative development workflows by **integrating** robust **CI/CD pipelines** and **Git** version control.

Teaching Assistant | Namal University Oct 2023 - Feb 2024
Mentored 40+ students in **Programming Fundamentals**, **Data Structures**, and **OOP**. **Engineered** systematic evaluation processes for 200+ assignments, **providing** technical feedback that **improved** student learning outcomes by 20%.

CORE PROJECTS

IntelliFYP: AI Powered Projects Lifecycle Automation & Archival System
Spearheaded the architectural design and development of **IntelliFYP**, an enterprise-grade platform built with **.NET 9** and **Angular 20** to **streamline** end-to-end management of university projects. **Orchestrated** a sophisticated **AI Engine** utilizing **FastAPI** and **Llama 3** to **automate** complex faculty-project alignment through intelligent similarity scoring. **Constructed** a robust n-tier architecture enforcing granular **RBAC** for five stakeholder types and **integrated** real-time **Skill-Gap Analysis**. **Engineered** via **Docker** for high-availability deployment.

Parallel Web Log Server Analyzer (Python Multiprocessing)
Developed a high-performance log analyzer **leveraging** Python's Multiprocessing to **concurrently** process multi-gigabyte logs. **Built** a Master-Worker architecture to **maximize** CPU utilization. **Engineered** real-time insights for 1M+ entries.

Cloud Architecture: Azure Shop (E-Commerce Platform)
Deployed a cloud-native electronics marketplace using **Azure App Services** and **SQL**, **achieving** 99.9% uptime. **Built** Azure Blob Storage integration, **reducing** load times by 40% through **CDN** delivery.

Data Analysis: Education vs. Terrorism Impact Analysis
Developed multivariate statistical models to **evaluate** global correlations. **Engineered** a robust Python/Pandas data pipeline to **scrub** and **merge** multi-decade datasets. **Deployed** high-fidelity visualizations via **Matplotlib**.

Cybersecurity: Merkle Tree Data Integrity & Authentication
Engineered a cryptographic system using **SHA-256 Merkle Trees**. **Developed** compressed inclusion proofs for **accelerated** verification and **built RSA-2048 Digital Signatures** for root hash signing.

Software Engineering: Pitch and Play Supplies (E-Commerce)
Developed end-to-end SDLC following **IEEE Std 830 (SRS)** and **UML** standards. **Built** a modular backend with **Node.js** and **MongoDB**, **implementing** secure authentication and maintainability.