

Muhammad Talal Ahmed

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PROFESSIONAL SUMMARY

Computer Science graduate with strong Python programming and backend development experience, building REST APIs, automation tools, and AI-powered applications. Proficient in object-oriented programming, SQL, Git, Linux, and modern software development practices, with hands-on experience using FastAPI, PostgreSQL, and collaborative version control workflows. Backed by experience in enterprise IT and cybersecurity, bringing strong analytical, troubleshooting, and problem-solving skills. Passionate about developing scalable, maintainable software and continuously expanding expertise in Python application development and AI-driven solutions.

TECHNICAL SKILLS

Languages — Python | JavaScript/TypeScript | SQL | C++

Frameworks — FastAPI | React | Next.js | Node.js

Databases — PostgreSQL | MongoDB

Tools — Git | GitHub | Docker | Linux

Concepts — OOP | REST APIs | MVC | Data Structures

PROJECTS

AI-Driven SRS Generator (FYP) 🔗

Python, FastAPI, LangGraph, Next.js, PostgreSQL, ChromaDB

- Built a full-stack AI-powered platform that generates IEEE 830-compliant SRS documents.
- Developed a multi-agent workflow with PostgreSQL-backed state management.
- Integrated RAG, document export, and human-in-the-loop requirement elicitation.

ML for Malware Detection 🔗

Python, Scikit-learn, Malware Detection

- Built a Python ML project for polymorphic malware detection.
- Used machine learning techniques for security-focused binary classification.
- Applied Python, data analysis, and predictive modeling to cybersecurity.

Timetable Parser 🔗

Python, PDF Processing, Data Extraction

- Developed a Python-based PDF parsing pipeline to extract timetable data from unstructured university documents.
- Transformed semi-structured PDF content into normalized JSON output for downstream automation and integration.
- Implemented document processing logic to handle data extraction, parsing, and structured serialization in Python.

Department Website 🔗

Astro, TypeScript, JavaScript

- Developed the official department website with Astro.
- Designed reusable components and optimized performance for fast page loads.

PROFESSIONAL EXPERIENCE

SOC Analyst

01/2026 – 04/2026

ITSOLERA PVT LTD

- Investigated security incidents using SIEM platforms.
- Automated repetitive security analysis and documentation tasks using Python scripting.
- Produced technical documentation and incident reports.

IT Intern

07/2025 – 09/2025

Jauharabad Sugar Mills

- Assisted with troubleshooting hardware, software, and network issues for employees.
- Supported basic Windows system administration and user-side IT operations.
- Assisted with enterprise network and camera infrastructure tasks during IT deployments.

EDUCATION

BS in Computer Science

University of Sargodha

2022 – 2026

CGPA: 3.8/4.0 (Bronze Medal)

CERTIFICATES

- Python for Everybody Specialization 🔗
- National Skill Competency Test - Rank 65 nationwide (Top 0.2%)