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# Amer Hamza Aamir

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## Summary

Applied Computing graduate student with hands-on experience delivering enterprise Mendix solutions and building REST backends. Proficient in systems/networking (C/C++, sockets, Linux) and modern ML/data tooling (Python, scikit-learn, TensorFlow, Databricks). Seeking a 4–8 month internship starting September 2025 focused on ML & AI, data engineering, or scalable software systems.

## Skills

**Languages:** Python, SQL, Java, C, C++, JavaScript

**ML & Data:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Keras

**Data Eng/Platforms:** Azure Databricks, Apache Spark, Microsoft Fabric, Snowflake

**Visualization:** Power BI, Tableau, Matplotlib, Seaborn

**Web/Backend:** Django, Flask, REST APIs, Selenium, BeautifulSoup, MongoDB, Mendix

**Systems/Tools:** Linux, Bash, TCP/IP, Socket Programming, Git, Postman, Jupyter, AWS, Azure

## Experience

**S4 Digital** — Associate Software Developer (Mendix Specialist)

Lahore, PK (Remote)

Nov 2022 – May 2025

- Shipped enterprise-grade features on Mendix, writing custom Java actions, microflows, and REST integrations to connect external systems.
- Built reusable UI components with pluggable widgets (JavaScript/React) and delivered user stories through Git-driven Agile sprints with EU-based teams.
- Delivered high-priority functionality for the Proximus<sup>+</sup> ecosystem and contributed to Remire.co and Dubai Development Authority portals.
- Created an AI connectivity proof-of-concept (“Gemini Pro”); enhanced integrations for Ensa insurance, and developed an in-house time-tracking tool (*S4 Sight*).

## Selected Projects

**Distributed File System (S1–S4, Client)** — reliability-first file routing

C, POSIX sockets

- Routed uploads and downloads across four servers by file type (.c/.pdf/.txt/.zip); enforced synchronous responses and correct filename handling.
- Implemented tar creation and cleanup on servers and verified end-to-end transfers from the client.

**Portfolio + Carbon Footprint Quiz** — full-stack learning site

Django, SQLite

- Developed models, views, templates and quiz scoring; resolved template loading, static file, and migration issues; deployed the portfolio to the provided URL.

**Course Recommender & Data Desensitization**

Python, scikit-learn

- Built content-based recommendation models and designed a data-anonymization pipeline with configurable policies and evaluation.

**Web Crawlers & Regex Extraction**

Java (Selenium/Playwright, JSoup)

- Parsed course and data pages with Selenium and JSoup; benchmarked Playwright for stability and selected it for production.

**TCP Attack Labs (SEED VM)**

C/Python, Wireshark

- Developed proofs-of-concept for SYN flooding, TCP reset, and session hijacking; captured and analyzed network traces using Wireshark.

## Education

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**M.A.Sc. (Applied Computing)**  
**University of Windsor**, Windsor, ON

**Sep 2024 – Present**

- Cumulative average: ~80 %; coursework includes Internet Applications Distributed Systems, Networking/Security, Python, and ML/AI.

**B.Sc. (Software Engineering)**  
**University of Management and Technology**, Lahore, PK

**Jan 2018 – Nov 2022**

- CGPA: 3.65/4.00

## Certifications & Training

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- Linux Command Line Essentials (edX), Jan 2025
- Intro to Selenium for Test Automation (LinkedIn Learning), Sep 2024
- Intro to Machine Learning (Kaggle/Google AI), Jul 2024
- 100 Days of Code: Python (Udemy), Sep 2023

## Activities

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- Introduction to NLP & LLMs Bootcamp (University of Windsor), Jan–Mar 2025
- Demo Day Participant, Dec 2024
- AI Bootcamp (Atomcamp), Feb–Apr 2024