







HAMZA QURESHI

Software Engineer

Python | C++ | Certified AI Developer | Data Science

 hamzaqureshi5  hamza7771861@gmail.com
 +92 313 5209504  github.com/hamzaqureshi5
 Islamabad, Pakistan  LinkedIn

SUMMARY

Experienced software engineer with a strong background in data structures and algorithms. Expertise in software development using programming languages such as Python and C/C++. Quick learner and critical thinker eager to join the team and contribute to the organization's goals. Participation will broaden abilities and expertise. Excited to collaborate with the team and create a significant influence.

SKILLS

Languages: Python, C++, R, SQL

Frameworks & Libraries: QT, PyQt, Django, Flask, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn, NLTK

Tools & Technologies: AWS, REST APIs, Jupyter Notebook, Git, Docker, Spark

Development Tools: PyCharm, Jupyter, VSCode

EDUCATION

9/2023 - 7/2025 **National University of Computer and Emerging Sciences - Islamabad, Pakistan**
Master's in Data Science

9/2016 - 7/2020 **Bahria University - Islamabad, Pakistan**
Bachelor's in Electronics Engineering

EXPERIENCE

- 4/2023 – Current **Secure Tech Cards Private Limited - Software Engineer** Islamabad, Pakistan
- Developed a desktop application that automated ISO 7816-4 Smart Card personalization data generation; this innovation improved operational efficiency, processing 20,000+ records without manual intervention.
 - Engineered a desktop application for smart card personalization, achieving ISO 7816-4 APDU commands execution standards; implemented comprehensive logging; increased operational efficiency by 40%.
 - Implemented multi-threaded Python solution for real-time sensor status updates to a central server; simultaneous monitoring of 200 sensors, facilitating immediate response actions for anomalies detected.
 - Created a desktop application using QT Python to prepare Smart Card scripts and personalization data; streamlined script execution process and enhanced data handling capabilities by 35%.
Python / PyQt6, Django, Flask, FastAPI, RESTful API
- 8/2021 – 5/2022 **Nextek Service - Software Design Engineer** Islamabad, Pakistan
- Created a multi-threaded desktop application to optimize real-time data processing from FPGA over Ethernet, resulting in a 40% reduction in data latency and enhancing efficiency for critical defense operations.
 - Spearheaded the automation of protocol extraction processes through Python scripting, achieving a remarkable 50% reduction in manual entry time while enhancing overall data accuracy across all the teams.
 - Designed detailed schematics and printed circuit boards (PCBs) for legacy systems, ensuring precise replication of original designs; enabled a seamless transition to modern systems, reducing downtime by 25%.
 - Engineered a robust desktop application for DVR systems with advanced video recording, playback, and feature testing capabilities; modernized legacy project with CMake and reduced build times by 35%.
C, C++, Python / QT, MFC, Xilinx

PROJECTS

UNet, Pytorch **DICOM Segmentation & 3D Model Application | Medical Image Segmentation** Github
Designed and trained a robust AI segmentation model that processed over 5000 of DICOM images, enabling precise visualization of anatomical structures and improving the speed of diagnostic evaluations for medical practitioners using ONNX runtime.

CERTIFICATIONS

Artificial Intelligence Certificate
Presidential Initiative for Artificial Intelligence & Computing - PIAIC

IBM Data Science Professional Certificate In progress
International Business Machines Corporation - IBM

LANGUAGES

English - B2+, Urdu - Native