

# HAMZA QURESHI

Software Engineer

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

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## 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:** Modern C++, Python

**Frameworks:** QT, PyQt, Django, Flask, Keras, TensorFlow, Scikit-Learn, PyTorch

**Tools & Technologies:** Docker, AWS, REST, SQL, Git, GitHub

**Dev Tools:** Pycharm, Jupyter Notebook, 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; and 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

- LSTM, DL, Python **Twitter Sentiment Analysis using LSTM** Github
- Trained and implemented LSTM model using TensorFlow/Keras on labeled data for Twitter Sentiment Analysis; evaluated model performance using accuracy, precision, recall, and F1-score metrics, achieving 85% accuracy and 0.88 F1-score.

## 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