

Quiara Kirkland

267-671-7686 | echoprotocol@tuta.com | qkirkland.github.io

Python Security Engineer

SKILLS SUMMARY

I am a Python Security Engineer with a passion for building secure, robust applications and automating security processes. My expertise spans secure software development, vulnerability assessment, malware analysis, and log forensics. I have hands-on experience with encryption, secure file transfer, and the development of custom security tools. I am skilled in Python, Bash, and Linux environments, and I leverage industry-standard tools such as cryptography, YARA, and requests. My certifications—including CompTIA A+, Network+, and more—demonstrate my commitment to professional growth and best practices in cybersecurity.

PROFESSIONAL ACCOMPLISHMENTS

Python Development

- Developed secure, efficient, and maintainable Python code for custom security tools and automation.
- Utilized industry-standard libraries to implement encryption, data parsing, and secure workflows.
- Built a CLI Password Manager with encrypted storage, password strength validation, and robust error handling.

Threat Detection and Log Analysis

- Automated the parsing and analysis of server logs to identify suspicious activity and potential security incidents.
- Implemented pattern recognition for failed logins, brute-force attempts, and port scans using Python scripting.
- Created a Log Analyzer tool that generates actionable security reports from raw log data.

Secure File Transfer and Encryption

- Designed and implemented secure file transfer solutions using SSL/TLS protocols and self-signed certificates.
- Ensured data confidentiality and integrity by leveraging Python's cryptography library for end-to-end encryption.
- Developed a Secure File Transfer Utility enabling encrypted file exchange between systems.

WORK HISTORY

Processing Supervisor, Free Library of Philadelphia, 12/2014 - 03/2025

EDUCATION

B.S. Cybersecurity and Information Assurance, Western Governor's University, 2025(August)

ADDITIONAL SKILLS AND CERTIFICATIONS

Tools & Technology: Cryptography, YARA, Linux, Git

Certifications: Anaplan Certified Model Builder; Aviatrix Multi-Cloud Associate; CompTIA A+, Network+; ISC2 Certified in Cybersecurity, SSCP (June 2025); ITIL v4; ServiceNow CSA

Strategy:Development with an emphasis on security