

AFFAN MUHAMMAD SHAIKH

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EDUCATION

Ontario Tech University

Oshawa, ON

Bachelor of Information Technology (Honours) - Networking and IT Security

Sept. 2024 - Expected Apr. 2028

- Relevant coursework: Advanced Networking I, Cybersecurity Foundations, Programming I with Python, and Computer Systems.

CYBERSECURITY PROJECTS

P2P Messaging (Collaborative WIP) | Python, Ed25519, X25519, ChaCha20-Poly1305, TCP

[GitHub](#)

- Co-developed a direct peer-messaging prototype with password-protected Ed25519/X25519 identities, out-of-band fingerprint verification, ChaCha20-Poly1305 encryption, Ed25519 signatures, and authenticated delivery acknowledgements.
- Added verified contacts, encrypted local history with authenticated metadata, attachment filename/size/SHA-256 binding, persistent replay rejection, message bounds, post-authentication rate limits, and read timeouts; passed 72 tests spanning adversarial and end-to-end cases.

Secure File Transfer | Python, TLS, SHA-256, pytest

[GitHub](#)

- Built an authenticated TLS file-transfer service with certificate and hostname verification, scrypt password records, recipient-scoped storage, resumable uploads and downloads, strict filename validation, and audit logging.
- Verified 8 upload/download round trips totaling 13.6 MB and resumed a 2.1 MB upload after a 700 KB interruption; blocked invalid authentication and at-rest tampering through SHA-256 re-hashing, quarantine controls, and 14 passing tests.

File Integrity Monitor | Python, SHA-256, JSON, unittest

[GitHub](#)

- Built a command-line monitor that creates trusted SHA-256 baselines and reports added, modified, deleted, and moved files through deterministic JSON evidence and script-friendly exit codes.
- Detected 45 of 45 controlled changes across 500 fixture files with zero scan errors and 7 passing tests; implemented same-size tamper detection, rename inference, exclusions, symbolic-link safety, and distinct clean, changed, and error exit states.

TECHNICAL SKILLS

Certification: CompTIA Security+ in progress

Security: TLS, ChaCha20-Poly1305, Ed25519/X25519, SHA-256, scrypt password records, file-integrity monitoring, access control, audit logging, RBAC, SSRF defenses

Networking: IPv4/IPv6, subnetting, VLANs, 802.1Q, inter-VLAN routing, DHCP, DNS, NAT, STP, OSPF/EIGRP fundamentals, routing and switching troubleshooting

Programming: Python, pytest, unittest, JSON, TypeScript, JavaScript

Systems and Tools: Linux, Windows Server, Microsoft Excel (navigation, filtering, sorting), Cisco IOS, Wireshark, Packet Tracer, Git, GitHub, Cloudflare Workers

ADDITIONAL TECHNICAL WORK

Interactive 3D Portfolio | TypeScript, React, Three.js, Cloudflare Workers

[GitHub](#)

- Built and deployed an interactive 3D workspace with custom models, responsive camera controls, keyboard and touch support, automated route checks, and a simulated desktop containing a file manager, terminal, resume, projects, and learning logs.

EXPERIENCE AND LEADERSHIP

Co-Founder and Platform Developer

May 2026 - Present

SSIK IT Consulting & Solutions

Ontario, Canada

- Co-founded an IT and cybersecurity consultancy with Ontario Tech classmate Ghayas Sher; jointly develop service scopes, security-control review methods, privacy research, and stakeholder-ready recommendations.
- Built the public website and private SSIK Intelligence V1 platform; delivered multi-workspace RBAC, SSRF-hardened passive collection, durable jobs, evidence-linked review, approval-gated mock outreach, rescans, backup and restore controls, and 79 automated tests.

Technical Operations and Hosting

2026 - Present

Archtech - Developing Nonprofit

Oshawa, ON

- Set up Google Workspace and manage website hosting and deployment while supporting implementation for an unreleased nonprofit platform.
- Coordinate contributors through a private shared repository and communicate hosting, access, and deployment requirements as the team works toward launch.

Sales Associate

May 2025 - Present

Winners

Oshawa, ON

- Process transactions accurately, resolve product questions, restock merchandise, and coordinate with team members during high-traffic periods in a fast-paced retail environment.

Summer Day Camp Counsellor

May 2023 - July 2023

Al Arqam Islamic Centre

Oshawa, ON

- Supervised children, led daily activities, maintained safe routines, communicated with families, resolved peer conflicts, and adapted programming to keep groups engaged.
- Completed 430 volunteer hours across Al Arqam and YCC519 community events, supporting registration, guest service, crowd flow, setup, cleanup, and event logistics.