

# Aidan Elliott-Korytek

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## Education

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### Queen's University

*Bachelor of Computing, Computer Science Major*

*Sept 2023 – Present*

### Relevant Coursework

- **Computer Architecture:** Studied stack discipline and memory layout with hands-on analysis of buffer overflow vulnerabilities, debugging, disassembly, and basic exploit development.
- **Operating Systems:** Studied Process and Thread management alongside Memory Protection Units (MPUs) to ensure strict isolation between concurrent system processes.

## Experience

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### Cybersecurity Intern

*QLogitek*

*July 2025 – August 2025*

- Designed and implemented a PowerApps-based vulnerability tracking board to streamline review and prioritization of Nessus vulnerability scan results.
- Integrated vulnerability metadata including severity, affected systems, remediation status, and review notes to improve clarity and reduce manual triage effort.
- Assisted in assessing a deprecated Java Tomcat application with minimal documentation, focusing on understanding system behavior and identifying potential security risks.
- Collaborated with team members to improve vulnerability review workflows and reporting processes using Microsoft Office and Power Platform tools.

## Projects

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### [aidanek.dev](#) (SSH-Based Interactive Portfolio)

[GitHub](#)

*Python, AsyncSSH, Textual, Linux, systemd, nginx*

- Designed and implemented a public-facing interactive portfolio accessible entirely over SSH, providing a terminal-based user interface for browsing projects, skills, and links.
- Built a custom SSH server using AsyncSSH and Textual, including session management, rate limiting, logging, and sandboxed execution without shell access.
- Deployed and hardened the service on a Linux VPS with key-only OpenSSH administration, custom ports, systemd service isolation, and Fail2Ban protection.
- Implemented environment-based configuration, secure host key management, and structured logging to support safe public access and maintainability.

### Secureconfig (OpenSSH Security Scanner CLI)

[GitHub](#)

*Python*

- Designed and implemented a Python CLI tool to scan OpenSSH server configuration files for common security misconfigurations.
- Developed modular rule-based checks for weak ciphers, password authentication, root login, excessive authentication attempts, access control, and logging.

## Technical Skills

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**Languages:** Python, Java, C, Html/CSS

**Technologies:** Git, Linux, pwndbg, pwntools, Wireshark, objdump, OpenSSH

**Other:** Microsoft Office 365, Photoshop, After Effects, Premiere Pro, Ableton Live Suite 12