

# RAINE JOHNSON

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## Education

### B.S. Computer Science and Cybersecurity

Sept 2022 – Jan 2026

*University of Washington Bothell*

## Experience

### The Estee Lauder Companies

June 2025 – Aug 2025

*Operational Technology Cybersecurity Analyst Intern*

*New York City*

- Deployed and configured Dispel infrastructure across global OT systems supporting a company with over 62,000 employees and operations in approximately 150 countries, ensuring secure remote vendor access and reducing third-party exposure.
- Onboarded and optimized Armis for real-time asset visibility and threat detection across OT/IoT networks, aligning with Estee Lauder's robust cybersecurity framework that protects \$15.6B in annual revenue and 56% in skincare business share.
- Collaborated with cross-functional IT and risk teams to integrate cybersecurity tools into industrial networks, supporting compliance measures and safeguarding critical infrastructure.

### Bose

Jan 2022 – Sept 2022

*Roadshow Engineer*

*International*

- Collaborated with a team to manage sensitive project files in a secure git repository, ensuring proper version control and access security.
- Designed virtual reality (VR) demonstrations using C++ with a focus on securing communication channels between hardware systems during international presentations.
- Ensured systems operated securely and in line with both marketing and engineering requirements, adhering to data protection and confidentiality standards.

### Microsoft

July 2021 – Sept 2022

*Certification and Accessibility Tester*

*Redmond*

- Conducted security tests on Xbox products, including network calls and crash dumps, identifying potential vulnerabilities and enhancing product integrity.
- Introduced and enforced strict security protocols for protecting personal identifiable information (PII) during testing.
- Utilized debugging tools to identify and resolve security issues, including title stability and system integrity, contributing to the overall resilience of Xbox products.

## Projects

### Secure Home Lab Network Architecture & Hardening | *pfSense, Proxmox, Suricata, ntopng*

- Built a layered home lab network on Proxmox with pfSense as the perimeter firewall/router, segmented into multiple VLANs using Ubiquiti UniFi switches and Access Points to emulate enterprise segmentation.
- Deployed Suricata IDS/IPS and ntopng for real-time traffic analysis and threat detection, tuning signatures and flow monitoring to identify anomalous behavior across internal and external network traffic.
- Integrated OpenVPN and WireGuard tunnels for secure remote access into the home lab, with automated VPN key management and strict access policies to isolate administrative traffic.

### Custom Password Manager & Credential Security App | *Python, Linux CLI, AES-CBC, SHA-256, Github*

- Developed a CLI-based password manager in Python supporting encrypted storage and management of multiple credential records within a local database.
- Implemented AES-CBC encryption at rest using PyCryptodome and SHA-256 hashing for master password verification, preventing plaintext credential exposure.
- Built secure credential lifecycle features, including password generation, rotation, backup, and database erasure with authentication enforcement.

## Skills and Tools

Armis, Dispel, Cisco ISE, Palo Alto Firewalls, Illumio, pfSense, VLANs, network segmentation, packet filtering, Wireshark, Nmap, Nessus/Tenable, Splunk SIEM, SentinelOne, Metasploit (lab use), Kali Linux, Ubuntu, ServiceNow, Power BI, incident detection and response, access control, least-privilege enforcement, secure credential handling, risk analysis, NIST Cybersecurity Framework, Python, Java, JavaScript, SQL, HTML/CSS, Node.js (basic), secure scripting, encryption and hashing, Git, GitHub, virtualization (Oracle VM / VirtualBox), traffic analysis, VPN fundamentals, vulnerability scanning, threat hunting fundamentals, secure logging and monitoring, web security fundamentals (CSRF, injection risks).

## Certifications

**Certificate 1** : ISC2 Certified in Cybersecurity Certification

**Certificate 2** : Codecademy Cybersecurity Certification

**Certificate 3** : TryHackMe Security Analyst Certification