

Ethan Duval

Cybersecurity Engineer

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Open to Relocation
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Education

- Virginia Tech** | Master of Engineering Grad May 2026
Computer Engineering - Concentration: Secure Information Systems & Networking · Grade: 3.91
Network Security, Intrusion Detection Systems, Risk Management
- Virginia Tech** | Bachelor of Science Grad Dec 2023
Computer Engineering - Concentration: Networking & Cybersecurity
Secondary focus in Artificial Intelligence & Machine Learning

Work History

- Professional Services Intern** · EfficientIP · Alexandria, VA, USA Jul 2025 - Aug 2025
- Engineered virtual lab environments in VMware, developing Python Scripts to validate and test customer infrastructure.
 - Assisted Professional Services team members with the initial build and configuration of customers' appliances.
 - Engaged with customers to configure DDI (DNS, DHCP, IPAM) environments, ensuring optimal network performance.
 - Supported SOLIDserver software upgrades ensuring compliance with encryption standards and security protocols.
- Cybersecurity Intern** · Dart Enterprises · George Town, Cayman Islands Feb 2024 - Jul 2024
- Built and automated internal security testing tooling using Bash scripting, developing systems to generate, execute and log adversarial test scenarios at scale.
 - Conducted security audits and collaborated with companies like Hotel Indigo and Hampton Hotels to uncover vulnerabilities.
 - Coached 80+ employees on cyber threats utilizing phishing campaigns and targeted security workshops.
 - Performed web application security testing using Burp Suite.
- Cybersecurity Intern** · Deloitte · George Town, Cayman Islands May 2023 - Jul 2023
- Collaborated with Risk Advisory teams to support network security initiatives.
 - Implemented and monitored security solutions such as firewalls, antivirus software, and intrusion detection systems.
 - Conducted vulnerability scans and penetration testing to identify security threats and weaknesses.
 - Performed security monitoring and log analysis using Elastic to identify and respond to security incidents.

Projects

- Homelab Network Infrastructure & Attack Simulation** · Network Engineering & Automation
- Deployed Multi-segment network (Enterprise, Healthcare, Residential) with full VLAN segmentation, pfSense/OPNsense firewalls and virtualized routers running OSPF and BGP. Configured Snort/Suricata IDS/IPS for real-time traffic analysis; wrote python automation scripts for network monitoring, topology discovery, and log parsing.

Skills

- Technical & Scripting Skills:** Python · TypeScript · React · C/C++ · Java · Kotlin · Ruby · Bash scripting
- Cloud & Infrastructure:** AWS · GCP · VMware · Linux · REST APIs
- Security:** Firewall & IDS/IPS · Penetration Testing · SIEM/Log Analysis · Burp Suite