Current Address:
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Ben J. Emanuel

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EDUCATION

Virginia Polytechnic Institute and State University (Virginia Tech)   **Blacksburg, VA**
Pamplin College of Business   *Expected Graduation: May 2027*
B.S. in Business: Cybersecurity & Data Analytics Management
Overall GPA: **3.40**

WORK EXPERIENCE

Pamplin IT Support Technician, Virginia Tech   **Blacksburg, VA**
End User Help Desk   *August 2025 - Present*
- Provided technical support to faculty and staff, and students by troubleshooting hardware, software, and network issues. Delivered responsive customer service, escalating complex problems, and documenting solutions to improve efficiency.

Virginia Asset Management (VAM)   **Blacksburg, VA**
Extern   *January 2025 – July 2025*
- Gained exposure to cybersecurity and IT operations in a professional environment, shadowing an industry professional and learning about risk management, system security, and client support. Developed an understanding of real-world applications of technical and business skills through hands-on observation and guided projects.

Projects & Activities

CyberVT, Virginia Tech   **Blacksburg, VA**
                                  January 2023 - Present
- Active member engaging in hands-on cybersecurity training, capture-the-flag competitions, and professional development workshops to strengthen technical and industry skills.
- 2026 **NCAE Cyber Games Competitor:** Selected for the Virginia Tech team to compete in a regional collegiate cyber competition focusing on person-to-person defense, networking, and systems administration.
- Engage in hands-on cybersecurity training, capture the flag (CTF) competitions, and professional development workshops to strengthen technical and industry skills.

Custom Python Security Tool   **Blacksburg, VA**
                                       December 2024 - July 2025 (completed)
- Developed a Python-based log analysis tool to detect suspicious login attempts and abnormal user activity.
- Implemented regex-based parsing, automated reporting, and export functionality to highlight high-risk authentication patterns.
- Applied cybersecurity principles to automate anomaly detection and support incident response workflows, with export functionality for CSV/JSON reporting.
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Automated File Integrity Monitor (FIM)   **Blacksburg, VA**
                                                  January 2026- Present
- Developed a real security tool in Python utilizing the SHA-256 hashing algorithm to ensure data integrity for sensitive system files.
- Engineered an automated polling loop with **exception handling** to detect and alert on unauthorized modifications within a 5-second window.
- Applied **SIEM concepts** and **secure coding** practices to implement a system that dynamically updates security baselines upon detection of authorized changes.

Certifications & Technical Skills

Certifications: Google Cybersecurity Professional Certificate, and ISC2 Certified in Cybersecurity (CC)

Technical Skills:
- **Security & Networking:** Penetration Testing Fundamentals, Vulnerability Assessment, Threat Intelligence, SOC Operations, DFIR, Malware Analysis, SIEM Concepts, OWASP Top 10, Secure Coding
- **Networking:** DNS, TCP/IP, Subnetting, Routing, Switching
- **Development Tools:** React, Node.js, Express, REST APIs, GitHub, Tailwind CSS
- **Professional Skills:** Communication, Collaboration, Problem-Solving, Adaptability