Adam Alexander Fasulo

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SUMMARY

Visionary cybersecurity and software engineering student (B.S. 2025) and founder of Trinity Intel, delivering cutting-edge IT security solutions to diverse clients. With a proven track record from Sandia National Laboratories internships, I've driven innovation through malware reverse engineering, kernel-level development for award-winning platforms like HADES, and automation that slashed processing times by up to 95%. Passionate about securing systems and building scalable solutions, I'm eager to bring my entrepreneurial spirit and technical prowess to a world-class tech team.

EXPERIENCE

Founder & IT Security Consultant | Trinity Intel *Full-Time, Concurrent with Part-Time Studies* | Jan 2021 – Present **Jan 2021 – Present**

- Designed and administered secure network infrastructures for multiple clients, including a multi-sport facility and a home construction company, implementing firewall policies, endpoint detection and response (EDR), and least privilege access controls.
- Performed vulnerability assessments for 10+ client systems, reducing attack surfaces by 30% through timely patching and remediation.
- Developed a Python-based system to automate performance data analysis for a sports science initiative, showcasing data engineering and automation skills.
- Led security awareness training for 50+ staff, enhancing resilience against phishing and social engineering attacks.

Cyber Systems R&D Intern | Sandia National Laboratories **May 2018 – Jan 2021**

- Contributed to state-actor threat research, performing malware reverse engineering to identify indicators of compromise for a threat intelligence platform.
- Conducted advanced penetration tests and reverse engineering on new products, identifying 15+ critical security flaws.
- Developed kernel hook modules in C and Assembly to enable anonymous Virtual Machine Introspection (VMI), a core component of the HADES cyber-deception platform, an R&D 100 award-winning project used in national security research.
- Engineered a high-performance search tool ("Low Resolution Indexing") that achieved sub-millisecond query times on petabyte-scale forensic datasets, reducing data analysis timelines from weeks to minutes for the cyber incident response team.
- Automated the provisioning of large-scale virtualized cyber experimentation labs using Ansible and Terraform, cutting setup time by 95% and ensuring 100% configuration consistency.

Enterprise BI Intern | Sandia National Laboratories **May 2016 – August 2017**

- Functioned as scrum master for a lab-wide application, leading user story development and managing the project backlog in Jira.
- Developed a PowerShell script to automate a critical data aggregation task, reducing the processing time from 90 hours to 6 hours.
- Met with customers to build fast and user-friendly SSRS and tableau data visualization reports.

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TECHNICAL SKILLS

- **Languages:** Python, C/C++, Go, Java, Assembly (x86/ARM), SQL, PowerShell
- **Cybersecurity:** Reverse Engineering (IDA Pro, Ghidra, GDB), Malware Analysis, Network Forensics (Wireshark, TCPdump), Penetration Testing (Metasploit, Burp Suite), Threat Hunting, SIEM (Splunk, ELK Stack), EDR (CrowdStrike), Vulnerability Assessment (Nessus)
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda, VPC), Azure, GCP, Docker, Kubernetes, Infrastructure as Code (Terraform, Ansible), CI/CD (Jenkins, GitLab CI)
- **Software Engineering:** Secure Software Development Lifecycle (SSDLC), Agile/Scrum, Git, Microservices Architecture, REST APIs, System Design, Distributed Systems
- **Operating Systems:** Linux (Debian, RHEL, Alpine), Windows (Desktop & Server), macOS

Education & Publications

University of New Mexico – Bachelors of Science - Computer Science and Math – 12/2025

- Relevant Coursework: Operating Systems, Cryptography, Algorithms, Network Security, Cybersecurity, Compiler Construction, Distributed Systems, Software Development, Functional Programming
- Note: Began technical internships in high school, continuing part-time during undergraduate studies to support entrepreneurial ventures.

- **DOE Publication:** *Thunderbird Cup Automation* (https://www.osti.gov/servlets/purl/1570320)
- **DOE Publication:** *Low Resolution Indexing for Sub-Milli-Second Searches on Peta-Byte Scale Data-Sets* (https://www.osti.gov/biblio/1807137)