Jacob Bauer

Cybersecurity Student

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Education

Purdue University – Polytechnic Institute   August 2021 - May 2025
Cybersecurity   Bachelor of Science
3.77 GPA
Polytechnic Institute

Awards: Dean's List & Semester Honors (Fall 2021 – Spring 2025)

Industry Experience

LTW Technology Partners   May 2024 - August 2024
Network Engineering Intern   Chicago, IL

- Communicated with customers to plan and deploy new network infrastructure such as new networking equipment and virtual machines.
- Administered small business LAN and WAN networks.
- Configured Routers, Switches, and Firewalls.
- Troubleshot networking issues to ensure connectivity and performance.

Koi Computers   December 2023 – January 2024
Computer Technician   Downers Grove, IL

- Troubleshot defective units and communicated closely with manufacturers such as GIGABYTE and AMD.
- Implemented new software and hardware to modernize and optimize server provisioning and deployment.
- Coordinated with customers such as The National Energy Technology Laboratory to unpack, assemble, test, and ship out over 700 units of cutting-edge servers.

Projects

Incident Response   August 2024 - December 2024

- Designed and implemented enterprise-level incident response plans aligned with NIST's Cybersecurity Framework, addressing threats to confidentiality, integrity, and availability through structured detection, response, and recovery processes.
- Utilized intrusion detection systems, network flow analysis, and system log evaluation to identify malicious activity, apply remediation techniques, and continuously improve cybersecurity risk management strategies.

Network Security   August 2024 - December 2024

- Configured and managed firewalls and VPNs to protect networks, applying best practices in access control, intrusion detection, and secure remote connectivity across Windows and UNIX systems.
- Conducted vulnerability assessments and system hardening, implementing encryption protocols and packet filtering solutions to support secure infrastructure design and defend against malware and unauthorized access.

Cloud Computing   Augus 2024 - December 2024

- Designed and deployed secure cloud-native infrastructures using virtualization technologies, Docker, Kubernetes, and Infrastructure as Code (IaC) tools such as Vagrant and Terraform.
- Built and managed hybrid cloud environments, deploying scalable microservices and implementing automated cloud configuration, monitoring, and DevOps practices

Leadership

WCCR Student Radio   August 2024 - May 2025
Treasurer

- Treasurer – Managed club finances by planning, budgeting, and implementing club events.
- Tech committee chair – coordinated with committee members to research, plan, and implement studio upgrades while minimizing downtime.
- Directed 3 committee teams with 10+ members each: tech, PR, and event planning

Skills

System Administration
Linux, Unix, Windows, macOS

Incident Response

Security Auditing

Penetration Testing

Firewall Configuration
CISCO, pfSense, VyOS

Computer Networking

Cloud-init, Vagrant, OpenStack

OSINT

SIEMs
Wazuh, Elastic, xcitium

EDRs
xcitium, Wazuh

Active Directory
LDAP

VMware and Proxmox
vCenter, vSphere

Network Engineering & Security

Risk Assessment & Mitigation

IDS / IPS

Microsoft SCCM

Threat Intelligence

Docker and Kubernetes

Python, Bash, and PowerShell

Regulatory Compliance

SQL

Multitasking

Documentation

Certifications

IS-100.C
FEMA
August 2024
PDF

IS-700.B
FEMA
August 2024
PDF