Benjamin Hall

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Skills

Systems Administration	Agile Development	Cryptography
Database Management	Computer Architecture	EnCase
Risk Management	Design & Analysis of	Ghidra
Vulnerability Management	Algorithms	Forensic Toolkit
Splunk & SIEM Tools	Web Development	Reverse Engineering
Windows Servers	Git Management	Embedded Systems
Linux	Python, Powershell, Bash	Binary Analysis

Education

AUG 2020 - MAY 2024

Iowa State University, 3.39 GPA
B.S. Cybersecurity Engineering

Experience

MAY 2023 - AUG 2023

Shure Incorporated
Cybersecurity Intern

- Monitored and investigated **SIEM**, **IDS**, and **XDR** platforms for security incidents to respond quickly to security incidents.
- Improved Shure's 3rd-party security rating from a D to B+ rating in 2 months.
- Drafted company **security policies** and protocols based on quarterly security reviews.
- Managed **phishing campaigns**, learning center, and manual email reviews based on user flagging to protect employees.

MAY 2021 - AUG 2021

Electrical Power Products
Cybersecurity Intern

- Enforced 30+ **security standards** and processes across multiple systems by reviewing CIS security recommendations and implementing priority remediations.
- Documented new formal company policies and protocols on topics including Risk Assessment, Account Policies, Training, etc…
- Served as the primary contact in the newly-established cybersecurity department to improve security concerns.

Projects

AUG 2023 - MAY 2024
Convoy Detection Application
Lead Backend Developer
- Led a group of three developers to create a **robust API** in **Python** that interacts with **React-based frontend** for researchers to model molecular bonds and convoys.
- Implemented a job queue using Celery to provide a **responsive AP**I while running computationally complex algorithms.
- Documented clear and descriptive guidelines for the API for use by researchers to improve codebase.
- Published into SIGSPATIAL 2024 Scientific Conference.

SEP 2017 - APR 2018
FINDining
Front–End Developer
- Developed an **Angular application** to interface with restaurant recommendation algorithm API server.
- Model client needs and expectations and develop an **agile-based schedule** to produce deliverables on time.

SEP 2016 - APR 2020
CyberPatriots
Linux Specialist
- Developed **bash script** to secure a variety of vulnerabilities automatically, covering Ubuntu and many services for servers.
- Researched and aggregated **security controls** to create a robust guideline for Ubuntu 16.04 and Ubuntu 14.04 security.
- Utilized CIS **Risk Assessment and Compliance standards** to secure Ubuntu systems.
- Developed training material to train members on Linux system security

Awards

Congressional App Challenge, 1st in Nebraska
CyberPatriots, 1st in Nebraska (2017-2020)
UNO IT Innovation Cup, 1st Place (2017-2019)
Future Builders Challenge, 1st Place

Certifications

CompTIA Security+ SY0-701, July 2025