

Jacob Boicken

Work Experience

IT Help Desk Aug 2021 – Present

ISU LAS Information Technology, Ames, Iowa

- Managed user accounts and privileges, hardware resources, software, and passwords/keys for ISU's largest department
- Handled faculty computer and network issues (ServiceNow)
- Explain computer and security literacy with faculty after endpoint security incidents

Information Security Intern May 2022 – Aug 2022

EMC Insurance, Des Moines, Iowa

- Shadowed SOC Analysts utilizing SIEM, SOAR, and EDR
- Coordinated internal/external penetration tests w/ new vendor
- Conducted phishing campaigns and vulnerability scans
- Reviewed Active Directory admin privileges for account separation
- Assessed emerging security tools and solutions
- Developed security team's agile workflow (Jira)

Research Intern May 2020 – Aug 2020

ISU College of Engineering, Ames, Iowa

- Researched Rust and Go languages to replace C for introductory programming coursework
- Reviewed the languages' memory safety and management, garbage collection, strong vs weak typing, and syntax
- Developed new programming labs for the upcoming semester

Corporate Breach Researcher Jan 2020 – May 2020

ISU College of Business, Ames, Iowa

- Researched the financial costs, public reporting, and intrusion methods of Target 2013, Equifax 2017, and Capital One 2019 breaches
- Built a case study for students reviewing the organizational and technical shortcomings of the businesses and importance of security

Education

BS – Cybersecurity Engineering Expected May 2023

Iowa State University, Ames, Iowa

- Cumulative GPA: 3.94
- Dean's List for 7 semesters
- Participated in CTF events and Cyber Defense Competitions

Contact

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- [linkedin.com/in/jacob-boicken](https://www.linkedin.com/in/jacob-boicken)
- github.com/p0l1t1c1an

Skills

Programming Languages:

- C/C++
- Python
- Assembly
- POSIX shell
- Java
- Rust
- SQL
- Powershell

Software/Tools:

- Splunk (SIEM)
- ServiceNow
- KnowBe4
- Docker
- Git
- Siemplify (SOAR)
- Jira
- Tenable
- Kubernetes

Operating Systems:

- Unix-like
 - Linux
 - BSD
- Windows
- MacOS

Projects

Chirrup

Programmed backend web service, set up CI/CD pipelines in GitLab, and maintained MySQL database for twitter-esque Android app

Personal Website

Design and manage my personal website through Github

Homelab

Maintain, monitor, and filter home network with OPNsense firewall and Cisco switch

Deploy and manage Kubernetes cluster and Docker containers to provide home services