

Logan Schmalz

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Summary

Computer science student at the University of Kansas experienced in software engineering, security, and general IT. Seeking to leverage mathematics, logic, and problem-solving skills in formal methods, programming languages, data science, security, and high-performance computing.

Education

University of Kansas

- Pursuing M.S. in Computer Science May 2023–
- B.S. in Computer Science with distinction, B.S. in Mathematics with distinction Aug 2019–May 2023

Work Experience

University of Kansas - Graduate Research Assistant

May 2023–

- Conducting research using Trusted Platform Module 2.0, Integrity Measurement Architecture, and SELinux to enforce and guarantee cryptographic key protection mechanisms for remote attestation

Ascend Learning - Intern Security Engineer

Dec 2021–Jun 2023

- Developed and supported automation software for information security operations as a web application to evaluate and block indicators of compromise and collect relevant information in one place for the team
 - React, Node.js, Bash, Python, MySQL, Kubernetes, GitLab CI/CD

Skills

Programming

- Rust, Coq, Java, C++ (incl. SDL & OpenGL), Haskell, HTML, JavaScript, PHP, Python
- Security, Reverse engineering

Information Technology

- Windows, Linux, server administration (NGINX, Docker), networking, computer support/repair
- Familiar with common security tools (nmap, Wireshark, etc.)

Publications

Adam Petz et al. "Verified Configuration and Deployment of Layered Attestation Managers". In: *22nd International Conference on Software Engineering and Formal Methods*. 2024.

Other Experience

- HackKU 2023 Winner for Live Captioning using OpenAI's Whisper model
- KU: Jayhackers (2019–2020), IEEE Club (2019–2023), Tau Beta Pi, Upsilon Pi Epsilon, Lambda Programming Languages Reading Group (2023–)
- Blue Valley Caps: FIRST Robotics Team 2410, AFA CyberPatriot XI, Repertory Grids Project 2017–2019
- Blue Valley High School Programming Club Co-President 2018–2019