

A.J. Futo

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WORK EXPERIENCE

Cybersecurity R&D

June 2023 – Present

Sandia National Laboratories

Remote

- Developing tools to identify compromises in cloud environments using telemetry data.
- Advising agencies on emerging computer science and cybersecurity technologies.
- Compiling solutions architecture guidance for cloud application security.

Cybersecurity R&D Intern

May 2022 – June 2023

Sandia National Laboratories

Livermore, CA

- Developing tools to automate large-scale validation of network configuration and connectivity.
- Writing policy to help define cybersecurity and networking best-practices for federal agencies.

Computer Science Course Staff

Aug. 2022 – May 2023

University of Central Florida

Orlando, FL

- Reinforcing concepts including algorithm design and analysis, graph theory, etc.
- Intro to Programming in C, Object Oriented Programming, Data Structures and Algorithms.

EDUCATION

Bachelor of Science in Computer Science

University of Central Florida

May 2023

Minor in Secure Computing & Networks

Summa Cum Laude | 3.96 GPA

- **Honors:** President's Honor Roll Spr. 2020 – 2023, NSF CyberCorps Scholarship for Service (SFS)
- **Coursework:** Cryptography & Info. Sec., Network Security & Privacy, Matrix & Linear Algebra

PROJECTS

Cloak: Man-in-the-middle packet capture and analysis system

Project Manager & Networking Lead

Sep. 2022 – May 2023

- Directing frontend, backend, and device development teams using Agile-style methodologies.
- Creating a lightweight device to capture packets from a host using Python, TShark, C, and Bash.
- Designing algorithms to examine raw packet data and provide modular data analytics.
- Developing a performant and parameterized RESTful Node.js API to access data analytics.

SKILLS

Technologies: Networking, virtualization, zero trust, cloud security, large language models

Languages: Python, C/C++, Java, JavaScript, Bash, PowerShell, Express.js, Node.js

Platforms: Git/GitHub, macOS, Windows, Linux, Ghidra, Wireshark/Tshark, Docker, Azure, AWS

Professional: Leadership, project/team management, troubleshooting, technical presentations

CERTIFICATIONS

CompTIA Secure Infrastructure Specialist

Apr. 2022 – Apr. 2025

CompTIA Security+

Apr. 2022 – Apr. 2025