

Andrew Roberts

intern2024@azroberts.com | [redacted]

<https://azroberts.com> | <https://linkedin.com/in/andrewzaneroberts/>

Education

University of Delaware, Bachelor of Science in Computer Science

Minor: Cybersecurity; Concentration: Systems & Networks

Expected Graduation – Fall 2024

Dean's List: Spring 2023, Fall 2022, Spring 2021, Fall 2021

Experience

Lutron Ketra: Embedded Engineering Intern

May 2023 – August 2023

- Modified firmware for EFR32 board to add CoAP blockwise transfer support
- Developed C# module for upgrading device firmware over OpenThread CoAP
- Built C# application to restore device firmware from customer to manufacturing

University of Delaware: Computer Science Teaching Assistant

September 2022 – May 2023

- Guided students in learning programming concepts & practices
- Aided students in building & debugging academic projects in python and C
- Graded assignments and provided constructive feedback

Citi Bank: Summer Software Developer Analyst

June 2022 – August 2022

- Built Angular component that filtered, sorted & paginated data from REST API
- Deployed Node.js REST API using Docker & Jenkins

Involvement

UD Capture The Flag Club

February 2023 – Current

- Competed in CTF challenges encompassing cryptography, web & binary exploitation
- Collaborated with cybersecurity students to learn advanced security vulnerabilities

UD Hen Hacks 2023 Hackathon

April 2023

- Developed React application for monitoring local floods using crowd sourced data
- Team achieved first place in flood monitoring project category

Minnehack 2022 Hackathon

January 2022

- Developed a crowd sourced security-focused webpage ranking Chrome extension
- Participated in capture the flag security challenges

Projects

Roommate Expense Tracker

Spring 2022

- Developed REST & WebSocket APIs for expense tracking & reconciliation using TypeScript
- Designed & deployed MySQL database for persistent data storage

Photography Portfolio Website

Spring 2019

- Designed & developed LAMP stack webpage for showcasing photography work
- Configured reverse proxy and deployed webpage on Raspberry Pi

Skills & Technologies

- TypeScript, JavaScript, C/C++, C#, Java, Python, PHP, HTML, CSS, MySQL, NodeJS, React, Angular, Docker, Git Version Control, Apache 2, Linux Operating Systems, Wireshark, OpenThread, Embedded Programming, Microsoft WinForms, Adobe Photoshop, Adobe Lightroom, Adobe Illustrator, Adobe After Effects