

ANDREW ROBERTS

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EDUCATION

University of Delaware

B.S. Computer Science

Newark, DE

January 2021 – December 2024

- **GPA:** 3.7
- **Additional Studies:** Cybersecurity (minor), Systems & Networks (concentration)
- **Relevant Courses:** Computer Architectures, Compiler Design, Operating Systems, Parallel Computing, Computer Networks, Webapp Security, Cloud Computing Security, Algorithms, Automata Theory, Data Structures, Systems Programming

EXPERIENCE

Out There Events (tentative name)

Newark, DE

Founder & Software Engineer

December 2024 – Current

- Led design & development of custom web application providing donation forms for nonprofits
- Integrated application with CRMs & Revere Payments providing seamless user experience
- Utilized TypeScript & Firebase to ensure application robustness & scalability

FNDRSNG

Newark, DE

Lead Software Engineer

June 2024 – November 2024

- Led design & development of custom web application providing donation forms for nonprofits
- Integrated application with CRMs & Revere Payments providing seamless user experience
- Utilized TypeScript & Firebase to ensure application robustness & scalability

Lutron Electronics

Austin, TX

Embedded Engineering Intern

May 2023 – August 2023

- Modified firmware of Silicon Labs development board to enable Openthread data transfer
- Developed C# module for transmitting device firmware to embedded lighting products
- Built C# application to restore firmware of bricked devices recovering over 400 products
- Conducted reliability testing on firmware restoration tool completing over 1000 tests

Citigroup

Tampa, FL

Summer Software Developer Analyst

June 2022 – August 2022

- Collaborated with team to develop & deploy Angular application using Docker & Jenkins
- Developed internal Angular component to replace AG Grid reducing annual costs by \$80k
- Showcased proficiency in industry software including Angular, Docker & Jenkins

PROJECTS

JAN Compiler

Academic Project

February 2024 – May 2024

- Collaborated in 3-member group to design a minimal, strongly-typed programming language
- Built compiler that can target web assembly or RISC-V assembly builds
- Conducted extensive testing using Vitest with over 360 test cases achieving over 99% code coverage

Investment Insights

Hackathon Project

March 2024

- Utilized LLM to summarize current stock data into digestible & educational format for students
- Built web interface for visualizing stock data, company recommendations & insight summary

ACTIVITIES

UD Hen Hacks 2025 Hackathon Winner

March 2025

- Conceived of a novel web page authentication method using pre-hashed passwords
- Led team of 4 engineers in building a Chrome extension implementing pre-hashed authentication

UD Capture The Flag Club (UDCTF)

Spring 2023 – December 2024

- Collaborated with cybersecurity students to solve advanced CTF challenges
- Created CTF problems in various categories that were featured in UDCTF 2023

UD Hen Hacks 2023 Hackathon Winner

April 2023

- Developed & deployed React JS application utilizing leaflet to create real-time heatmap of local flooding
- Presented the application to a panel of judges securing first place in flood monitoring hackathon category

SKILLS & Technologies

Skills: C/C++, Python, JavaScript, TypeScript, C#, Embedded Software Engineering, Firmware Development, Computer Networking, Java, PHP, HTML, ARM & RISC-V Assembly Language, SQL, CUDA, Penetration Testing

Technologies: Docker, Git, React, Wireshark, Google Cloud (GCP), Firebase, Apache, Nginx, MySQL, Virtual Machines