Isaiah Duhart

isaiahd@vt.edu | linkedin.com/in/isaiah-duhart/ | (808) 778-9774

EDUCATION

Virginia Tech Expected Graduation: May 2025

B.S. in Computer Science

Blacksburg, VA

• GPA: 3.30

TECHNICAL SKILLS

Tools and Frameworks

• Linux, Ghidra, Spring Boot, REST API, Git, Jira, mySQL, Linux, Bamboo, AWS, Microsoft Suite

Programming Languages

• C#, Java, C, Python, HTML, CSS, JavaScript, SQL

EXPERIENCE

Central Intelligence Agency

September 2023 - August 2024

• TS/SCI security clearance with a full scope polygraph

Langley, VA

Software Engineering Intern, DDI/Center for Cyber Innovation

May 2024 - August 2024

- Maintained python framework to support close access cyber mission and to allow external development teams to create tools within the framework
- Developed proof-of-concept framework plugin that automatically ingests packet captures (PCAPs) taken by the framework into an external tool that provides a webpage interface for easier PCAP analysis, especially for non-technical users
- Demoed tool updates to users in order to refined project requirements and gather feedback
- Updated process for validating JavaScript Object Notation (JSON) input for tools within the framework to allow for validation of custom JSON types

Software Engineering Intern, DDI/Center for Cyber Innovation

January 2024 - May 2024

- Developed a self-loadable Linux-kernel-based rootkit that provides process, file, and network hiding, paired with a user-space "orchestrator"
- Created API-like relationship between "orchestrator" and rootkit to authenticate users and pass requests and responses between kernel and user-space
- Collaborated with users to gather and prioritize rootkit requirements, while providing regular demos of tool progress

Software Engineering Intern, DST/Humint Technology Office

September 2023 - January 2024

- Developed Windows forensic solution to programmatically collect USB and network information from a device
- Interfaced with stakeholders to add a feature that highlights USB storage devices found on a device that are not on a configurable whitelist
- Created automation tests that modify a registry backup using batch scripts in order to streamline developer testing of all registry-focused tools

May 2023 - August 2023

Software Engineering Intern

Richmond, VA

- Worked on a team of 10 developers to create an airline website, backend api, chat bot, and relational database
- Formulated custom SQL queries to support flight search functionality, resulting in 3x speed up in lookup flight time compared to commercial airlines
- Developed REST API in Spring Boot that accessed and stored data in an AWS-EC2 hosted SQL database
- Implemented account authentication using Spring Security to provide users with personalized and secure accounts
- Clearly communicated backend development of clients in order to capture updated requirements

Software Assistance Triage (SWAT)

September 2021 – May 2023

SWAT Technician, College of Engineering

Blacksburg, VA

- Conducted IT support for College of Engineering students and staff
- Implemented a loaner system by creating images for bulk loans that require specific software
- Built office knowledge base to guide future employees, and trained them on the ticketing and loaner systems

ACTIVITIES

National Society of Black Engineers (NSBE)

September 2021 - Present

Technical Outreach Community Help Chair (TORCH)

Blacksburg, VA

- Expanding the TORCH program at Virginia Tech by leading tutoring sessions for middle and high schoolers, and creating volunteer opportunities for out college member body to support the community
- Collaborating with the Pre-College Initiative of VT's NSBE chapter to plan and coordinate monthly events outreach events for black middle and high schoolers
- Managing outreach events to stimulate K-12 minority students' interest engineering disciplines
- Translating complex engineering principles to easy to understand programs for middle and high schoolers

Galipatia Clark Global Global

September 2021 - May 2023

Peer Mentor and Upper Class Leader (UCL)

Blacksburg, VA

- Mentored group of 14 students to support them through their first year of college
- Collaborated with Service Learning Committee members to create volunteer opportunities for freshmen within the New River Valley