

Isaiah Duhart

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EDUCATION

Virginia Tech

B.S. in Computer Science

- GPA: 3.31

Expected Graduation: May 2025

Blacksburg, VA

TECHNICAL SKILLS

Tools and Frameworks

- Linux, Ghidra, Spring Boot, REST API, Git, Jira, Android

Programming Languages

- C#, Java, C, Python, Kotlin

EXPERIENCE

Central Intelligence Agency

September 2023 – August 2024

Langley, VA

- TS/SCI security clearance with a full scope polygraph

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
- Composed documentation describing information collected from each registry key, and other useful keys that could be collected in further development

CapTech

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, stored, and manipulated 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 to clients in order to capture updated requirements and feedback

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 our college member body to support the community
- Collaborating with VT NSBE's Pre-College Initiative to plan and coordinate monthly events outreach events for black middle and high schoolers to engage with engineering disciplines
- 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

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