

Noah Black

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Secret Clearance

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EXPERIENCE

• DRS RADA Technologies

Germantown, MD

Senior Systems Engineer

July 2022 - Present

- **DevOps Infrastructure:** Founding member and program lead for RADA DevOps efforts. Maintained VMWare/Proxmox test network of radar VMs and containerized radar peripherals for test and CI/CD. Merged complicated business requirements across Engineering disciplines into a shared network infrastructure.
- **Project Management:** Project lead for radar HWIL (Hardware-in-the-loop) productization efforts. Created cost-optimized and space-efficient rack mounted radar systems, reducing cost of test-ready radar assets by 90% or more. Drove program from an IR&D effort to production-ready design, aligning with both internal and customer-facing requirements. Regularly worked with company leaders to inform project status and drive future development.
- **System Integration:** Integrated various legacy RADA systems into a single, unified test network environment. Extended functionality of critical radar software to enable network-wide operation and control APIs in previously unsupported systems. Containerized radar system software from legacy source code to enable scalable, dynamic test networks.
- **Configuration Management:** Lead developer and maintainer for business-critical radar system validation tools and frameworks. Developed custom extension of XML 1.1 Schema standards to centralize validation of customer-facing XML files. Consolidate disparate radar configurations into a single, maintainable set of known-good XSD templates. Maintained validation frameworks through regular correspondence with engineers and fields service teams.

• G3 Technologies, Inc.

Ashburn, VA

Software Engineering Intern

May 2021 – August 2021

- **Web-based Unit Testing:** Wrote automated web test cases within a Python environment using Selenium WebDriver. Worked alongside test engineers to automate preexisting manual workflows and integrate tests into Continuous Integration pipelines.
- **Optimized Tests:** Optimized new and preexisting production unit tests to improve efficiency of DevOps environments.
- **Talent Development:** Trained personal skills across multiple programming languages - Python, C#, HTML, JavaScript - in order to support work across production environments. Studied good coding practices under the guidance of senior developers.

PROJECTS

- **TOTK Armor Tracker:** Open-source Qt Quick application to assist players with resource tracking in Legend of Zelda: Tears of the Kingdom. Primary maintainer of source code, designed code infrastructure and developed cross-platform automated releases using GitHub Actions.
- **Personal Webpage:** Custom-built static page built with pure HTML/CSS. Showcase of scrolling animations using SVG graphics, as well as scaling support for common screen resolutions and aspect ratios.

EDUCATION

• The Pennsylvania State University, College of Engineering

University Park, PA

Bachelor of Science in Computer Engineering

Graduated in May 2022

SKILLS

- **Languages:** Python, C, C++, Groovy, Rust, C#, PowerShell, Windows Batch, Bash, YAML, JSON
- **Technologies:** VMWare, Proxmox, Qt, Jenkins, Visual Studio, Git, GitHub Actions, Atlassian Suite