Ryan Foster

Computer Scientist

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SUMMARY

Computer scientist with 5 years building secure software for defense test programs, holding an active Secret clearance. Writes C++, Java and Python on Linux, applies cryptography and DevSecOps practices to meet NIST compliance frameworks, and uses machine learning to sift test data. Leads a 4-person development team and mentors 2 junior developers.

SKILLS

- **C++**
- **Java**
- **Python**
- **JavaScript**
- **Linux**
- **Git**
- **Cryptography**
- **DevSecOps**
- **Machine Learning**
- **Database Management**

EXPERIENCE

Computer Scientist

02/2023 - Present

Redstone Mission Systems

Huntsville, AL

Defense contractor building ground software for missile defense test programs; 600 employees.

- Lead a **4**-person software development team writing C++ and Java telemetry services on Linux.
- Implement AES and public-key cryptography for data links, passing 2 government security assessments with no findings.
- Build DevSecOps pipelines in GitLab with static analysis and container scans, cutting release time from 6 weeks to 10 days.
- Develop Python machine learning tools that flag sensor anomalies across 40 TB of flight test data.

Software Engineer

06/2021 - 01/2023

Tennessee Valley Software Group

Huntsville, AL

Engineering services firm supporting Army aviation programs.

- Wrote JavaScript and HTML dashboards for 300 program users tracking test readiness.
- Designed PostgreSQL schemas and database management scripts for a 2-billion-row results archive.
- Managed Git branching and code reviews for a 9-developer repository, cutting merge conflicts by about half.
- Ported 40,000 lines of legacy C# tools to Python with matching regression results.

Software Engineering Co-op

05/2019 - 12/2020

Madison County Aerospace

Huntsville, AL

Avionics test equipment maker; 3 alternating co-op terms during college.

- Coded C# test harnesses for 3 avionics interfaces, cutting manual test time by 50%.
- Fixed 120 defects in a Java ground station application across 3 co-op terms, each verified by the test team.
- Scripted Linux build tasks in Bash and Python for a 15-person engineering team.

EDUCATION

Bachelor of Science

University of Alabama in Huntsville

Computer Science

Huntsville, AL

05/2021

CERTIFICATES

CompTIA Security+

2023

CompTIA