Luke Griffith

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EDUCATION

University of Maryland, College Park, MD   (Expected May 2026)
Bachelors of Science, Computer Science

Poolesville HS   (Sep 2019 — Jun 2023)
Science Math and Computer Science Magnet Program, 4.78 WGPA.

SKILLS

- Python
- Kubernetes
- Docker
- Cloud Computing
- C++
- Java
- HTML/CSS
- JavaScript

EXPERIENCE

Lead Developer, MCPS High School Forensics Competition   (Jun 2020 — Present)
- Coded a generator for cybersecurity challenges with Python and Docker
- Devised fun challenges to educate students on cybersecurity vulnerabilities
- Organized and developed a competition with **200+** students, the largest competition in its 7 year history
- Collaborated with cybersecurity engineer Chris Thompson and student interns
- Presented competition at a Red River Professional Development event and will present at the 2023 NICE K12 Cybersecurity Education Conference

Research Intern, University of Maryland   (Jun 2022 — Aug 2022)
- Implemented and compared network coding signature schemes
- Created a custom C++ network coding library for project use
- Utilized the NS-3 simulator to obtain accurate performance metrics
- Presented research at local, regional, and state-wide competitions

Student Trainee, Department of Homeland Security   (Jul 2022 — Aug 2022)
- Conducted an in-depth comparison of container orchestrators to determine the best one for DHS's network
- Briefed senior leadership about switching to a cloud-native architecture
- Obtained public trust clearance

Robotic Rover Instrumentation Project   (Mar 2021 — Apr 2021)
- Using only tools in an Arduino kit and household items, built an instrument to identify rocks on a simulated exoplanet
- Combined algorithms to create a custom method to identify crystals
- Coded a GUI in JavaFX to view analyzed rocks and save collected data

CERTIFICATIONS

GCLD Certification   (Sep 2023 — Present)
Obtained by demonstrating expertise in using preventive, detective, and reactive measures to protect critical cloud-based workloads.

GFACT Certification   (Jan 2021 — Present)
Obtained by showcasing a strong understanding of cybersecurity basics, which includes topics like networking, cryptography, security concepts, servers, and more