

# Andrew T. Graham

Software Development Engineer in Test

## Portfolio

GitHub: [github.com/andeh575](https://github.com/andeh575)

Gitlab: [gitlab.com/andeh575](https://gitlab.com/andeh575)

Website: [prograham.dev](https://prograham.dev)

## Skills

- Agile
- C/C++
- CI/CD
- Cloud/Hybrid-Cloud
- Configuration Management
- Containerization
- Databases
- Golang
- Infrastructure as Code
- Leadership/Mentorship
- Python
- Rust
- Software as a Service
- Virtualization

## Credentials

- AWS Certified Cloud Practitioner
- Certified ScrumMaster
- CompTIA Security+
- TS/SCI-Eligible

## Education

Arizona State University

**Master of Computer Science**

Present, Phoenix, AZ

Portland State University

**B.Sc. Computer Science**

*Minors in Philosophy and Mathematics*

August 2014, Portland, OR

## Work Experience

**Tripwire, Inc.** | *Software Development Engineer in Test*

March 2018 to Present

Technical lead for a full-stack team focused on internal enablement application development and tooling, environment automation, and performance/specialized testing. Prioritize and lead projects and collaboration with development teams to implement applications, tooling, and automation to accelerate and enable development cycles and business activities. Lead team in daily engineering activities, agile, and personal development.

Primary owner and architect of multiple internal applications and tools, including: Cloud deployment and configuration tool suite, cloud scale testing harness, internal infrastructure inventory and management application, product platform support registry, and product license generation application.

**Tektronix** | *Software Design Engineer*

October 2015 to March 2018

Focused on deployment of open source continuous integration system for mainstream oscilloscope software. Personal efforts directly resulted in improved build stability and decreased deployment times through parallelization and optimization. Developed integration process with extensibility for future projects and data collection for visual management. Actively lead scrum team, organized work priorities, managed requirements, and developed internal tools.

Acted as primary advocate and implementer of build system modernization efforts resulting in 30% decrease in average build times and reduction of customer-reported defects. Implemented automation lab that interfaced with test frameworks to verify embedded software builds across discrete instruments. Primary owner of multiple internal tools, including: Programmatic Interface Stress Tool, Jira Test Case Query Tool, Programmatic Interface talker/listener for automation, and Bitbucket data scraper.

**Oregon Army National Guard** | *Staff Sergeant*

February 2005 to Present

Currently assigned as instructor for Advanced Infantry Sergeant School at Camp Umatilla, OR. Conduct training, examinations, and evaluations of students. Responsible for the development, maintenance of, and updates to course material.

Previous assignment as Infantry Platoon Sergeant; directly supervised, trained, and evaluated twenty personnel in a one-hundred soldier unit. Managed an inventory list of approximately five-hundred line items and material assets valued at over \$10M. Promoted up the ranks to a managerial level and gained considerable responsibility for strategic planning and tactical application. Honorably served on two overseas tours in support of Operation Iraqi Freedom and Operation Enduring Freedom/Freedom's Sentinel.

## Presentations and Papers

Gomena, Graham, Spurgeon (2019). ***On-Premises to Cloud: Ephemeral Scale Testing.*** Paper presented at Pacific Northwest Software Quality Conference, Portland, OR.

Graham, Andrew (2017). ***Supporting Continuous Integration in Embedded Software.*** Paper presented at Pacific Northwest Software Quality Conference, Portland, OR.