

# Andrew T. Graham

Software Architect

## 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
- Artificial Intelligence
- C/C++
- CI/CD
- Cloud/Hybrid-Cloud
- Configuration Management
- Containerization
- Databases
- Golang
- GraphQL
- Infrastructure as Code
- Leadership/Mentorship
- Machine Learning
- 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**

*Artificial Intelligence and Machine Learning focus;*

*Member, IEEE- Eta Kappa Nu*

*Engineering Honor Society*

Attending, Phoenix, AZ

Portland State University

**B.Sc. Computer Science**

*Minors in Philosophy and Mathematics*

August 2014, Portland, OR

## Work Experience

**Tripwire, Inc.** | *Software Architect*

December 2021 to Present

Enable development teams for two core industrial cybersecurity solutions (Industrial Visibility, Industrial Sentinel) and SaaS offering (Anyware) by providing architectural direction, designs, and best practices. Complement organization's project management by envisioning, pathfinding, and proving out customer solutions that span the company's product portfolio and technological capabilities.

- Extensive practical experience coaching and mentoring engineering and product management staff
- Perform strategic research, directly contributing to company roadmap
- Disseminate knowledge on market and technology trends to R&D staff
- Provide senior engineering leadership/support to commercial team

*Senior Software Engineer*

March 2018 to December 2021

Technical lead for a full-stack team. Prioritized work, led projects, and collaborated with adjacent teams to implement applications, tooling, and automation that accelerated and enabled business activities. Led team in daily engineering activities, agile, and professional development. Primary owner and architect of multiple full-stack applications with a variety of technological compositions throughout tenure, that included Rust, Go, Python, Typescript/JS/React, Docker, k8s, AWS, and VMWare.

**Tektronix** | *Software Design Engineer*

October 2015 to March 2018

Focused on deployment of continuous integration for mainstream oscilloscope embedded software. Personal efforts directly resulted in improved build stability and decreased deployment times which resulted in a 30% average decrease in build times and overall reduction of customer-reported defects. Actively led team of three, organized work priorities, and managed requirements, in addition to being a primary developer.

**Oregon Army National Guard** | *Staff Sergeant (Course Manager)*

February 2005 to Present

Currently assigned as a qualified instructor and course manager for Advanced Leader's Course: Infantry. Conduct training, examinations, and evaluations of students with course sizes of approximately 30 students. Coach, mentor, and develop junior instructors through continuing education on pedagogy, regulation, and leadership. Responsible for the development, maintenance of, and updates to course material.

Previous assignment as Infantry Platoon Sergeant; directly supervised, trained, and evaluated twenty personnel across four critical components in a one-hundred soldier unit. Managed an inventory of 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.