

EDUCATION

Carnegie Mellon University

Master of Science, Electrical and Computer Engineering; 3.4/4
Bachelor of Science, Electrical and Computer Engineering; 3.3/4

Pittsburgh, PA

Jan. 2022 – May. 2023

Aug. 2018 – Dec. 2021

EXPERIENCE

Raytheon

Senior Software Engineer

Colorado Springs, CO

Jan 2026 - Present

- Support transition of git repos to **Docker** containerization and troubleshoot issues that arise from environmental differences.
- Troubleshoot and fix failing unit tests in **C++** and **Ada** radar code.

Collins Aerospace

Software Engineer II

Colorado Springs, CO

Jul 2023 - Dec 2025

- Built features in **Java** for routing and interpreting sensor data originating on land and in space to support C2BMC National Team.
- Engineered a **persistent** and coherent storage for maintaining availability of data across many instances of a system.
- Developed a tool to verify **integrity** of installed applications. Reduced troubleshooting time by indicating which files had been modified.
- Led an investigation to determine risks of upgrading tech and develop solutions for identified risks.

Collins Aerospace

Software Engineer Intern

Colorado Springs, CO

Jun 2022 - Aug 2022

- Developed an automated testing application for verifying system requirements using **Java** on C2BMC National Team.
- Implemented tests for new requirements and updated existing requirements to ensure version compatibility.
- Planned and built new **Java/Maven** application for aggregating test results on web app to provide historical verification context.

Microsoft

Software Engineer Intern

Redmond, WA

Jun 2021 - Aug 2021

- Investigated methods for optimizing a **Yocto** build for embedded Linux operating system.
- Implemented and enabled ccache within Yocto build and analyzed performance gain, achieved **1.2x** speedup.
- Designed new build pipeline for running unit tests in parallel to increase productivity and pull request turnaround time, achieved **25%** speedup.

Parthean

Full Stack Developer

Pittsburgh, PA

Jan 2020 - Jan 2021

- Built and designed an analytics page for educators of online learning platform using **React**, **D3.js**.
- Integrated quantitative metrics to capture member engagement and community growth.
- Restructured data model to allow extensibility and improve performance and efficiency.

PROJECTS & LEADERSHIP

XDash: Personalized real-time futures trading platform using **Go**, **React** and **ProjectX** API.

Alpine Racing and Freestyle Team, Team Captain: Lead team practices and fitness activities. Coordinate with competition leaders to plan events.

SKILLS

Languages : C/C++, Python, Go, Java, JavaScript, SQL, Ada

Tools/Frameworks : AWS, React, Numpy, PyTorch, gdb, Django, Spring, Maven

Abilities : Data Analysis, Machine Learning, Binary Exploitation, Web Development, Decision Making

Security Clearance: Active DoD Secret