

SKILLS

Languages: CSS, Kotlin, L^AT_EX, TypeScript

Software & Tools: Azure Kubernetes Services, Docker, Git, GNU/Linux, MySQL, React, Spring Framework

Practices: Continuous Integration, Extreme Programming, Test-Driven Development, User-Centered Design

Foreign Languages: German (A2/B1)

WORK HISTORY

- 01/2022 – Current **SkillBridge Internship: Software Engineer**
Sagely | Remote
- Built a social learning platform to guide users' professional learning journeys using AI to curate, organize, and contextualize online content.
 - Worked on the three-developer team in a fast-paced start-up environment
 - Gained valuable, personally novel experience with OpenAI's GPT, React Native, NativeWind, and Expo Application Services
- 01/2022 – 02/2024 **Full-stack Software Engineer**
United States Space Force | Los Angeles, CA
- Developed and sustained two full-stack applications for 1200+ space command and control users requiring worldwide availability
 - Practiced test-driven development at the unit, integration, and end-to-end levels to ensure consistent code quality in continuous integration environment
 - Transitioned two applications from Cloud Foundry to Azure Kubernetes Services as tracers for new pipeline and deployment environment
 - Analyzed existing software implementations to identify areas of improvement
 - Participated in requirements gathering for high-visibility executive-directed action to solidify prerequisites and determine best technical solution to meet user needs
- 04/2020 – 06/2021 **GPS Mission Director**
United States Space Force | Los Angeles, CA
- Commanded 12-member team for readiness events and launch & early orbit operations (L&EO)
 - Conducted L&EO for SV05
- 11/2019 – 12/2021 **Project Manager**
United States Space Force | Los Angeles, CA
- Planned, scheduled, and negotiated \$28M follow-on for \$34M project
 - Monitored project performance to identify areas of improvement and make adjustments
 - Coordinated and led cross-functional team of 8 to resolve project issues and mitigate risks
 - Oversaw 30+ member team of contractors performing software development
 - Provided detailed project status updates to users, executive management, and other stakeholders
- 06/2017 – 12/2017 **Robot Programmer Intern**
RT Leaders | Munich, Germany
- Worked with 5-member multidisciplinary team to design and build bespoke robotic cell battery construction machine, increasing customer safety and productivity
 - Planned and implemented operations for 12 FANUC unites across a manufacturing line to fit a new product design
- 12/2016 – 05/2017 **Software Development & Research Intern**
RIT Computer Engineering Department | Rochester, NY
- Researched and implemented networking protocols within a virtual domain for realization of real-world radio use cases, using a synthesis of C++ and Python
 - Worked independently with regular progress updates to customer and supervisor

- 09/2014 – 05/2018 **Student Manager**
Sol's Underground | Rochester, NY
- Supervised 4+ student employees per shift
 - Ensured compliance with food safety procedures
 - Managed customer problems and complaints

EDUCATION

- 05/2019 **Bachelor of Science: Computer Engineering**
Rochester Institute of Technology | Rochester, NY
- Senior Design: Low-cost Fundus Camera, worked with multidisciplinary team to design low-cost functional modern fundus camera capable of capturing screening-quality retinal images
 - Minor in Military Studies & Leadership
 - GPA 3.55
- 10/2020 – 04/2021 **Supra Coders Software Development Immersive**
United States Space Force | Los Angeles, CA
- 3-month full stack development bootcamp with Defensive Cyber Operations - Satellite follow-on assignment
 - Configured Hack-A-Sat network with Puppet
 - Developed COSMOS TT&C protocol decoder

PROJECTS

AT-AT - Aggregate Tasker Administration Tool

- Proof-of-Concept to replace Department of Defense's Tasker Management Tool
- Designed and implemented tasker inbox view/response features and accompanying database and API
- Built with Javascript, Express, PostgreSQL, React, and AstroUXDS CSS

Low Cost Fundus Camera | Senior Design

- Designed low-cost functional modern fundus camera capable of capturing screening quality retinal images
- Interfaced Raspberry Pi with linear actuators, motor HAT, and controllable LEDs
- Programmed user interface in PyQt

Semi-autonomous Cell Battery Constructor

- Planned and implemented operations for FANUC R-30iB to construct experimental cell batteries
- Designed semi-autonomous function for space-constrained, pumped argon environment

USAF Ribbon Rack Visualizer | Personal Project

- Developed PyQt application for visualizing ribbon racks with proper order of precedence.
- Created with option to extend support to other branches of the military.

Genesee River Raft | Personal Project

- Constructed raft by hand from fallen timber and rope
- Successfully floated it from RIT to the University of Rochester boathouse

COMMENDATIONS

Boy Scouts of America

- Eagle Scout, Computer Sustainability and Recycling Drive
- Order of the Arrow: Vigil Honor

National German Honor Society

- Chapter President, 2018-2019