

SKILLS

Languages: CSS, Kotlin, L^AT_EX, TypeScript

Software & Tools: Azure Kubernetes Services, Docker, Expo Application Services, Git, Jina Reader, LangChain, Linux, MySQL, OpenAI GPT, PostgreSQL, Prisma, React, React Native, Spring Framework

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

Foreign Languages: German (A2/B1)

WORK HISTORY

Feb 2024 – Current

SkillBridge Internship: Software Engineer

Sagely | Remote

- Built a social learning platform to guide users' personal and professional learning journeys, using TypeScript, React, and TailwindCSS.
- Integrated OpenAI's GPT using LangChain and Jina Reader to organize, curate, and contextualize user content
- Ensured feature parity on both web and mobile applications in order to create a consistent user experience
- Worked on the three-developer team in a fast-paced start-up environment

Jan 2022 – Feb 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

Apr 2020 – Jun 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

Nov 2019 – Dec 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

Jun 2017 – Dec 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 units across a manufacturing line to fit a new product design

- Dec 2016 – May 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
- Sep 2014 – May 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

- May 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
- Oct 2020 – Apr 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