

KENNY ROFFO

✉ kroffojr@gmail.com ☎ (315)-806-7757 🌐 kennyroffo.com 📄 kroffo

State University of New York at Oswego

B.S. Physics, Mathematics, Computer Science, Honors Program, 3.66

May 2017

TECHNICAL SKILLS

Languages Java, SQL, Python, C/C++, Javascript
Tools Git, PostgreSQL, Docker, Jira, Kubernetes, AWS

PROFESSIONAL EXPERIENCE

Percent Technologies April 2022 - Present
Backend Software Engineer New York, NY, USA

Percent's system was comprised of a set of Java-based microservices with PostgreSQL for the database. I worked primarily in the Esign area of the system, which included modeling investor profiles in SQL tables, preparing profile form schemas for the frontend and saving their data to the database on submission, and filling PDF documents programatically. We used Kubernetes and AWS for deployments, and Lens and DBEaver to monitor the system.

NASA Jet Propulsion Laboratory June 2017 – April 2022
Engineering Applications Software Engineer Pasadena, CA, USA

Aerie (Open Source) 2019 – 2022
Aerie is a project focused on designing and building a service-based architecture aimed at addressing mission planning needs, including simulation and activity scheduling. I worked as an engineer on the backend which is primarily in Java. Aerie's tech stack included Java, Gradle, Docker, Javalin, Hasura, GraphQL, PostgreSQL and Typescript.

Europa Lander 2020 – 2022
For Lander I developed a Java-based mission model aimed at simulating different mission scenarios enabling us to explore alternative mission concepts very early on in mission development. I built a highly configurable model that generates and simulates an activity plan for the full mission from landing to to mission end, using JPL's Blackbird simulation engine. This project fostered much growth for me as my first project as the only software engineer, and I learned a lot in the process.

Flight Software Core (FSWCore) 2019 – 2020
Developed tests in C for the sequencing engine component of the flight software project FSWCore. This work involved a bit of requirements engineering, and each test was very tightly tied to a specific requirement being tested.

InSight 2017 – 2019
Worked with two others to develop Python-based tools to perform various tasks from file conversions to generating full web-page reports. Our most notable product was an excel-like UI fully integrated with our simulation and reporting tools. These tools were used to plan and operate the InSight Mars Lander daily once the spacecraft landed on the surface of Mars.

AWARDS

Europa Lander Team Award, NASA JPL April 1, 2022

NASA Honors Award, NASA September 28, 2020

NASA Group Achievement Award, NASA August 28, 2019

Successful completion of the Link Complexity and Maintenance Tool, NASA JPL July 13, 2018

Development and Delivery of the Link Complexity Scheduling Tool, NASA JPL Sept. 22, 2017