

# KENNY ROFFO

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State University of New York at Oswego

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

May 2017

## PROFESSIONAL EXPERIENCE

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### Percent Technologies

April 2022 - November 2022

*Backend Software Engineer*

New York, NY, USA

Percent is a Fintech startup with the goal of creating a standard marketplace for private credit transactions. During my time there I worked closely with product managers and other engineers to determine and execute appropriate solutions to problems. My work was primarily done by working with SQL and Java (Springboot), with a heavy emphasis on keeping as much business logic in SQL, as opposed to in the Java code, per the company's engineering decisions.

### NASA Jet Propulsion Laboratory

June 2017 – April 2022

*Engineering Applications Software Engineer*

Pasadena, CA, USA

#### [Aerie \(Open Source\)](#)

2019 – 2022

*On Aerie we have been designing and building a service-based architecture aimed at addressing mission planning needs, including simulation and scheduling needs. I have worked as an engineer on the backend which is primarily in Java. Aerie's tech stack includes Java, Gradle, Docker, Javalin, Hasura, GraphQL, PostgreSQL and Typescript.*

### Europa Lander

2020 – 2022

*For Lander I have 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 have built a highly configurable model that generates and simulates an activity plan for the full mission from landing to death, using JPL's Blackbird simulation engine.*

### 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.*

## RESEARCH & INTERNSHIP EXPERIENCE

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### NASA Jet Propulsion Laboratory

September 2016 – December 2016

*Software Engineer Intern - Web development*

Pasadena, CA, USA

### [SAGE](#), Max-Planck Institute for Solar System Research

Summer 2016

*Research Assistant - Analysis of Red Giant Branch Bump*

Goettingen, Germany

### NASA Jet Propulsion Laboratory

Summer 2015

*Software Engineer Intern - Web Development*

Pasadena, CA, USA

### Department of Physics & Astrophysics, University of Delhi

Summer 2014

*Research Assistant - Analysis of RR Lyrae variable stars*

New Delhi, India

## TECHNICAL SKILLS

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<b>Languages</b>	Java, Python, C/C++, Javascript, HTML/CSS
<b>Tools</b>	Git, PostgreSQL, Docker, IntelliJ, Jira

## AWARDS

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**Europa Lander Team Award**, NASA JPL *April 1, 2022*

Kenny is awarded Europa Lander's 2022 Team Award for esign Sim support and successful execution.

**NASA Honors Award**, NASA *September 28, 2020*

To the InSight Mission Planning and Sequencing Team for developing maintaining and operating a robust Planning and Sequencing System in support of deployment HP3 recovery and science monitoring operations.

**NASA Group Achievement Award**, NASA *August 28, 2019*

To the InSight Surface Activity Planning Development Team for design and implementation of the new Science Plan Integrator tool suite enabling tactical surface operations.

**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*