

## TECHNICAL SKILLS

Python  
Javascript  
Ruby  
Perl  
SQL  
AWS ElasticSearch/OpenSearch  
AWS Lambda  
AWS EC2  
AWS ECS  
AWS S3  
AWS IAM  
AWS APIGateway/R53  
AWS Cloudwatch  
AWS Cloudformation  
Serverless  
Terraform  
Docker  
Puppet  
Tensorflow  
Keras  
Jupyter Notebooks

## AWARDS

NASA JPL Voyager Award  
April 2022  
NASA JPL Team Award  
Sept 2022  
June 2022  
Sept 2021

## CERTIFICATIONS

AWS Advanceduser  
January 2021 | NASA JPL

## COURSE WORK

Cost Effective Mission Operations  
Oct 2020 | NASA APPEL  
Managing Virtual Teams  
Nov 2022 | NASA APPEL  
Anomaly Risk Rating  
Jan 2020 | NASA APPEL

# ELLIOT T TRAPP

## SOFTWARE AND MISSION OPERATIONS ENGINEER

## EXPERIENCE

### Software and Mission Operations Engineer

NASA Jet Propulsion Laboratory  
Since January 2019

- Integrated orbiter telemetry into a Mars 2020 landing visualization empowering the world to witness the real-time location of the MRO and MAVEN orbiters on landing night
- Architected, deployed, and administered AWS data lake infrastructure enabling 27 operational engineering teams to share mission critical data between both public and private international partners
- Adapted Europa Clipper command dictionary schemas to meet technical requirements of the new Sample Return Lander (SRL) project
- Implemented new Ground Data System (GDS) paradigm for radiating command products to 12 operational spacecraft via new Space Link Extension Command Client (SCC)
- Deployed and administered JIRA customer service desk, automating customer ticket tracking and work status reporting
- Lead a team of 4 engineers providing mission critical operations support to 12 flight projects
- Mentored and managed three cohorts of interns on the fundamentals of mission operations

### Software Engineering Intern

NASA Johnson Space Center  
August 2018 - January 2019

- Developed a Recurrent Neural Network model that classified astronaut's cognitive workload based on pupillometry image data
- Authored Python and MATLAB libraries to automate data cleaning, ingestion, and verification of pupillometry data

## EDUCATION

### Master of Science, Computer Science

August 2016 - June 2018

DePaul University, Chicago

### Master of Arts, Philosophy

August 2012 - June 2015

The New School for Social Research, New York

### Bachelor of Arts, Philosophy, Political Science, Mandarin

August 2007 - June 2011

DePaul University, Chicago