

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

- Retrofitted ground data system infrastructure enabling it to interface with Space Link Extension Command Client, creating a new paradigm for how ground data systems radiate command products to spacecraft
- Automated routine administrative procedures, empowering the operations team to respond to customer requests in a radically quicker and more consistent manor
- Designed and delivered an automated JIRA customer service desk, enabling robust tracking of customer request tickets and seamless customer communication
- Architected, deployed, and administered cloud infrastructure meeting the requirements of 27 operational teams
- Authored and presented test and release documentation for the Distributed Object Manager V10.10 - V10.13 for management
- Developed Concept of Operations, requirements, interface and sequencing diagrams for System for Telemetry Organization and Recovery project
- Integrated orbiter telemetry into a Mars 2020 visualization allowing the world to see the real-time location of the MRO and MAVEN orbiters on landing night
- 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

Bachelor of Arts, Philosophy, Political Science, Mandarin

August 2007 - June 2011

DePaul University, Chicago