

Mira Flynn

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EXPERIENCE

Data Station Engineer 1

June 2024 – Present

United Launch Alliance

- Maintained critical hardware and software systems for flight telemetry recording and processing, ensuring seamless data acquisition during launch operations
- Supported launches by ensuring error-free performance of data recording systems and processing raw telemetry data into usable formats for post-launch analysis
- Diagnosed and resolved rare and previously unseen telemetry data anomalies during launch operations using internal tools
- Facilitated internal testing by recording test data and collaborating with cross-functional teams to define and deliver required data products
- Collaborated with team members to design and implement process improvements, enabling the team to support an increased launch cadence
- Accelerated launch data processing by enhancing existing tools with new features and improved resiliency, reducing processing time and errors
- Designed new data processing tools to improve onboard video quality and accelerate release times by up to 10x, cutting processing durations from days to under 2 hours
- Enhanced logging functionality in software tools using an internal logging framework to improve traceability and compliance with organizational standards
- Refactored legacy code by translating it from Perl to Python, improving code readability, maintainability, and documentation
- Documented all telemetry data received during launches, including detailed metadata, to ensure traceability and adherence to contract requirements
- Adhered strictly to internal procedures to safeguard confidential and controlled information, ensuring compliance with all organizational policies

Data Analytics and Management Intern

June 2022 – August 2022

Pfizer

- Determined which characteristics of the projects within the division were important for the division's leadership
- Designed and programmed an algorithm to process and visualize large amounts of project management data
- Developed a dashboard using Spotfire and Python to highlight the important characteristics I identified

Teaching Assistant- Data Science, Astronomy and Statistics

September 2021 – May 2023

Olin College of Engineering

Needham, MA

- Assisted in teaching probability and statistics, programming in R and Python, and effective visual communication of information
- Clarified probability and statistics concepts to students outside of the classroom environment
- Advised students when debugging code for assignments and projects
- Assessed student assignments for correctness, clear scientific writing, and effective visual communication of information

Researcher - Shared Mobility Systems

June 2020 – August 2020

Olin College of Engineering

Needham, MA

- Researched equity in shared mobility systems for the City of Providence alongside professor Alice Paul
- Implemented a model of system demand and usage patterns in R using linear regression, decision trees, and multiple clustering algorithms
- Designed an application to visualize and explore our model using Shiny and Leaflet packages

EDUCATION

Olin College of Engineering

August 2019 – May 2023

Bachelor of Science in Engineering: Computing

Needham, MA

Recipient of 50% Tuition Merit Scholarship

Selected Coursework: SCOPE (Senior Capstone Program in Engineering), Technology, Accessibility, and Design, Probabilistic Modeling, Astronomy and Statistics, Principles of Integrated Engineering, Discrete Math, Computer Architecture, Complexity Science, Software Systems, Engineering Systems Analysis, Quantitative Engineering Analysis, Foundations of Computer Science, Data Science, Microelectronic Circuits, Modeling and Simulation

TECHNICAL SKILLS

Programming Languages: Python, C++, Perl, R, SQL, Arduino, MATLAB, JavaScript, HTML, PHP, OCAML, C, RobotC, Verilog, Assembly

Developer Tools: Git/GitHub/Bitbucket, Jira, Confluence, VS Code, Linux/Ubuntu/CentOS/RHEL, Amazon Web Services (AWS), RStudio, Spotfire, Alteryx, Jira, macOS, Windows

Libraries: NumPy, Pandas, GeoPandas, SciPy, Shapely, Matplotlib, Flask, Tidyverse, R Shiny, Leaflet, Tensorflow, Keras, PyTorch, Simulink

General Skills: Computer Science, Software Design, Software Development, Data Processing, Documentation, Legacy Code Maintenance, Automation, Data Science, Back End Programming, Full Stack Programming, Relational Databases, Using APIs, Version Control, Machine Learning, Artificial Intelligence, Process Improvement, Attention to Detail, Verbal and Written Communication, Collaboration, Creativity, Continuous Learning, Analysis, Problem Solving, Time Management