

# Justin Foster | Software Engineer

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## Professional Summary

Software Engineer with 2+ years of experience in developing scalable data-driven machine learning solutions. Passionate about applying statistics, data science, and machine learning to solve big data challenges. Eager to leverage expertise and leadership in data science projects and predictive modeling.

## EXPERIENCE

**Lockheed Martin - Fusion AI/ CID Data Team**, Ft. Worth, TX

*June 2023- Present*

*Software Engineer Asc.*

- Led a team of 4 engineers in developing a machine learning-based anomaly detection algorithm for temporal F-35 data, achieving a 93% detection rate for anomalous messages in the test dataset
- Co-Authoring a 27-page whitepaper and delivered on time and ~\$150,000 under budget to the USRL, outlining the findings of a 6-month research project focused on advanced data correlation between F-35 and Intelligence, Surveillance, and Reconnaissance (ISR) data sources.
- Leveraged terabytes of flight test data to design, develop, and implement data-driven and machine learning-based algorithm enhancements for F-35 Sensor Fusion, contributing to the F-35 Combat ID Data Team's efforts in advancing system performance and capabilities.

**Lockheed Martin - Fusion AI/ CID Data Team**, Ft. Worth, TX

*June 2022- August 2022*

*Software Engineer Intern*

- Integrated synthetic data processes along F35 machine learning algorithms in order to train recommender systems for the purpose of adjusting definitions of non-cooperative platforms.

**Texas Spacecraft Laboratory**, Austin, Texas

*Feb 2021 - May 2023*

*Seeker/ Vision Team Lead*

- Led a machine learning research team, collaborating with the sponsoring professor to discuss research papers, project progress, and contract objectives related to the development, training, and deployment of a CubeSat Mobile-Pose machine learning model.
- Integrated public APIs, including AWS and Blender, to generate training data for the Seeker-team Computer Vision Model, optimizing data preparation for model development.

## PROJECTS

**CollegiateConnection** - [Git](#)

- Designed and developed a full-stack React web application, utilizing AWS to deploy a dynamic database of universities, businesses, and cities, aimed at simplifying student employment decision-making post-graduation.
- Leveraged SQL, JavaScript, and Python to implement dynamic page views, instance sorting, and efficient database queries on AWS, ensuring client requirements were met and system performance optimized.

**Goals iOS App** - [Git](#)

- Developed a user-friendly iOS app that allows users to set, monitor, and optimize their habits in order to achieve their goals by utilizing Swift and SwiftData to provide seamless data management and real-time tracking.

## EDUCATION

**The University of Texas at Austin**, Austin, TX

*May 2023*

*Bachelor of Science, Computer Science*

GPA: **3.81**

**Honors:** University Honors Spring 2020 - Spring 2023, Lockheed Martin RMS Undersea Scholar

## LEADERSHIP & COMMUNITY INVOLVEMENT

**Boy Scouts of America**, The Woodlands, TX

*2010 - 2017*

*Eagle Scout*

- Organized, designed, and led 10 other scouts in the construction of a 7 ft. tall informational kiosk outside of the Lake Creek Preserve in Conroe, Texas

## SKILLS

**Languages/ Libraries:** Python (Numpy, Pandas, Tensorflow, Pytorch, Sklearn), SQL, Java/ JS, Swift, React, C/C++

**Certifications:** DataCamp AI/ ML Fundamentals Program, Tensorflow for ML

**Spoken Languages:** English (fluent), Spanish (intermediate)