

JUSTIN FOSTER

Computer Science Student, Graduating May 2023

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EDUCATION

B.S., Computer Science

University of Texas, Austin

📅 August 2019 – May 2023

- GPA: 3.79 | Honors Spring 2020 - Spring 2022
- Named *Lockheed Martin Rotary and Missions Systems Undersea Scholar* by Dolphin Scholarship Foundation

Languages

- Python
- Java
- C/C++
- matlab

Certifications

- Secret Security Clearance
- Tensorflow for ML

Classes

- Operating Syst.
- Data Struct.
- Software Eng.
- Algorithms

EXPERIENCE

Software Engineer Intern

Lockheed Martin Aeronautics

📅 June 2022 - Current 📍 Ft. Worth, Texas

- Implemented data adjustment recommender to modify Emitter Tracks for Mission Data Files collected by F-35 RF sensors
- Generated synthetic mission data in order to train recommender system for the purpose of identifying non-cooperative vehicles
- Acquired a Secret Clearance and gained valuable experience handling classified data and systems

Seeker Team R&D

Texas Spacecraft Laboratory

📅 February 2021 – Current 📍 Austin, Texas

- Tasked to oversee project research and development of contracts awarded by NASA, Air Force, and Space Force in dealings with Mobile-Pose Machine Learning for non-cooperative satellites
- Upgraded, trained, and modified Mobile-Pose machine learning pipeline to accommodate new projects on GovCloud restricted data
- Incorporated many API's such as AWS and Blender in order to generate training data suitable to train the Seeker-team Convolutional Neural-Network

Coding Instructor

CodaKid

📅 May 2021 - Sept. 2021 📍 Austin, Texas

- Taught students aged 5-15 in Python, JavaScript, Java, Lua, and Scratch
- Streamlined teaching skills to maximize time in class in order to build Mods for Minecraft, games in Roblox, and fun programs like Tetris
- Tracked progress of 25 students throughout the summer in order to maximize their retention and supplement their growth as programmers

PROJECTS

CollegiateConnection - 🌐 Git

- Designed a full-stack React web application using AWS to deploy a database of Universities, Businesses, and Cities to make student decisions after college easier.
- Utilized SQL, JavaScript, and python to implement page views, sorting on instances, and queries to the AWS database in order to satisfy client requests.

Overwatch - LM

- Worked within the DevSecOps team developing a pipeline for the F-35 to be able to identify unknown Vehicles based off of known emitter information
- Implemented functions able to learn and adjust data in order to more accurately identify non-cooperative vehicles from known emitter data acquired through F-35 sensors.

Seeker Machine Learning - TSL

- Modified Seeker Team software, Bran, used to train Pose-estimation model in order to accommodate new GovCloud restricted project
- Trained convolutional neural net on generated Synthetic imagery in order to prepare pipeline for new contracts

LEADERSHIP

Seeker Team Lead

Texas Spacecraft Laboratory

📅 Feb 2021 – Current 📍 Austin, Texas

- Lead machine learning research team while meeting with sponsoring professor to discuss papers, progress, and contract directives

Secretary, House Manager

The Tejas Club

📅 Nov 2021 – Present 📍 Austin, Texas

- Manage and Lead the organization in all dealings with the club house
- Take notes at meetings and serve as constitutional expert of club bylaws

Eagle Scout

Boy Scouts of America

📅 2010 – 2017

- Organized, designed, and led a final Eagle Scout project over the course of 3 months:
 - Built a 7 ft Wooden Kiosk outside of Lake Creek preserve