# lustin Childress

Knoxville Tennessee

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Skills\_

Languages Python, Airflow, SQL, DBT, MATLAB

Databases SQL Server, TSQL, BigQuery, Cloud Storage

MS Office, Tableau, Tableau Prep, Power BI, Google Drive, ANSYS Fluent, Pointwise, AutoCAD, SolidWorks Technologies

Excellent communication skills, willing to take the initiative or work under a leader in team settings, experienced in **Soft Skills** 

communicating complex topics to others without technical backgrounds

**Experience** 

**FreightWaves** Chattanooga, TN Mar. 2022 - Present

DATA ENGINEER

Designed automatic processes for ingesting and cleaning data

· Worked with multidisciplinary team using experience with data analysis and specific experience with data concerning air cargo

Assisted with and helped organize large in person team building events

**Mortgage Investors Group** Knoxville, TN BUSINESS ANALYST Apr. 2020 - Mar. 2022

• Developed and designed Tableau dashboards for operational use

· Worked in Tableau Prep to clean and prepare raw data for reports

· Utilized Python to automate data ingestion processes and other data cleaning including work involving an API

**FreightWaves** Chattanooga, TN

DATA SCIENTIST · Was involved in meetings and talks with customers including one deal valued at over 3 million dollars

• Began as an intern and was quickly promoted to full-time Data Scientist

Worked in SQL server to clean raw data and publish results to customers

· Worked in python to clean, import, and export data

Assisted in developing a python web scraping tool

#### **Tennessee Valley Authority**

CONTRACT CHEMICAL ANALYST

• Tested mercury levels and energy content of coal samples

Ensured data credibility through testing of control samples

• Responsible for troubleshooting equipment issues

## Research

#### **Novel Propellants for Hybrid Rockets**

SENIOR DESIGN PROJECT

· Worked with teams of three to design, maintain, and operate a small thrust stand

· Supported the transition to future research teams during graduate school for continuity of safety and quality standards

· Developed standards for future teams to test other energetic liquid fuels, and document results

#### **TGV Rockets Nozzle Analysis**

GRADUATE STUDENT

• Utilized 3-D modeling program to translate rocket nozzle design into a mesh

Analyzed high energy flow to model heating of rocket nozzle

• Determined testing limitations to ensure safe operating conditions for personnel and equipment

### **Education**

#### University of Tennessee, Knoxville

MASTER OF SCIENCE IN AEROSPACE ENGINEERING

· Focus on Computational Fluid Dynamics, Data Science, Numerical Methods

University of Tennessee, Knoxville

BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING

University of Tennessee

University of Tennessee

Jun. 2019 - Feb. 2020

Chattanooga, TN Jun. 2014 - Aug. 2014

Knoxville, TN

May 2024

Knoxville, TN

August 2016