Justin Childress

Data Engineer, Data Scientist, Aerospace Engineer

Knoxville, Tennessee

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Skills

Languages	Python, Airflow, SQL, DBT, MATLAB
Databases	SQL Server, TSQL, BigQuery, Cloud Storage
Technologies	MS Office, Tableau, Tableau Prep, Power BI, Google Drive, ANSYS Fluent, Pointwise, AutoCAD, SolidWorks
Soft Skills	Excellent communication skills, willing to take the initiative or work under a leader in team settings, experienced in communicating complex topics to others without technical backgrounds

Experience

FreightWaves
Chattanooga, TN
Data Engineer — *Mar. 2022 - Present*
- 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 — *Jun. 2019 - Feb. 2020*
- 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
Chattanooga, TN
Contract Chemical Analyst — *Jun. 2014 - Aug. 2014*
- 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
University of Tennessee
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
University of Tennessee
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
Knoxville, TN
Master of Science in Aerospace Engineering — *May 2024*
- **Focus on Computational Fluid Dynamics, Data Science, Numerical Methods**

University of Tennessee, Knoxville
Knoxville, TN
Bachelor of Science in Aerospace Engineering — *August 2016*