




Adam Sutherland

Data Engineer

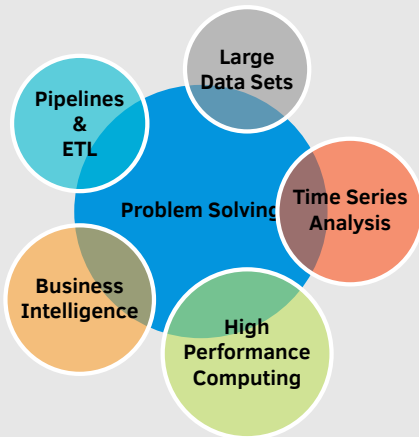
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Technical Skills

Overview



Programming

Intro \longrightarrow Expert

Python • Spark • SQL • pandas

Fortran • Mathematica • OpenCV

C • Julia • IDL

Skills

- Data Lake & Data Warehousing
- Azure Databricks
- 3rd Party APIs
- Data Visualization: Tableau, Grow, interactive plots, matplotlib, Bokeh, Plot.ly
- Quantitative Analysis
- Numerical & Analytical Mathematics
- Complex Problem Solving
- Collaborative Coding: github
- Stakeholder Management
- Simplifying High Level Concepts

Experience

Oct 2021 - **Data Engineer**

Homie

Present

- Built and deployed process to sync external MLS listings to internal database. Replaced legacy process, reducing update lag from 12 hours to 15 minutes. New process increased the number of listings processed and eliminated duplicates. Have synced >4.5 million listings.
- Build and maintain pipelines via external APIs and Azure Data Factory to add data to Homie's data lake. Utilize Azure Databricks and PySpark to build Delta Tables as well as facts and dimensions for a Kimball data warehouse.

May 2020 - **Data Analyst**

Homie

Oct 2021

- Combined, cleaned, and analyzed data from a variety of sources to provide visualizations and insights to stakeholders across multiple lines of business including Real Estate, Loans, Title, and Insurance for a rapidly expanding company.
- Assisted in streamlining customer acquisition and experience by tracking customer journey and analyzing effectiveness of marketing campaigns.
- Transitioned BI to Tableau.

Aug 2016 - **Graduate Research Assistant**

University of Arizona

Jan 2020

- Ran computationally intensive numerical simulations in C and analyzed large data-sets with Python and pandas.
- Compared numerical results to self created modified analytic theory of mean motion resonances for planets around binary stars.

Education

Master of Science: Astronomy & Astrophysics

University of Arizona

2016 - 2018 | Tucson, AZ

Bachelor of Arts: Physics w/ Honors, Geophysical Sciences

Specialization: Astrophysics

University of Chicago

2012 - 2016 | Chicago, IL

Dean's List: First, Second, Third, and Fourth Year

General Honors with Bachelor's Degree

Impact

- 4 publications with a combined 58 citations
- Research featured in 2 popular science articles

See www.suth.space/portfolio/ for a research project example.