MICHAEL MURDOCK

Boulder, Colorado linkedin.com/in/michael-m-a58502204 | 303-525-5333 | mimu4403@colorado.edu

EDUCATION

UNIVERSITY OF COLORADO BOULDER, Boulder, CO

2023

BS in Information Science

- · Minor in Business and Financial Analytics
- Cumulative GPA: 3.9
- Transfer Excellence Scholarship
- · Course Grader for Computational Reasoning
- Relevant Courses: Applied Machine Learning, User-Centered Design, Computational Reasoning, Decision Science, Information Exploration, Information Visualization, Data Science and Biostat

EXPERIENCE

HANDSHAKE, San Francisco Bay Area, CA

06/22-08/22

Data Engineer Intern

- · Built a new, incremental data model (DBT) for jobs and postings at a monthly cadence, reducing heavy terabyte hits and improving speed of end-user queries/Looker explore runs
- · Wrote Airflow DAGs to run two DBT models and upstream dependencies on a scheduled interval, limiting table builds and removing cluttered derived tables for better optimization
- Tied together 10+ created and existing data assets in a new Jobs explore (Looker), helping finance monitor recession impact by visualizing postings over time with filterable dimensions
- · Dealt with stakeholders in an agile workflow (Jira) to implement over five premium job measures requested for Handshake Plus, giving product data for comparing metrics of employers with upgraded jobs

UNIVERSITY OF COLORADO BOULDER, Boulder, CO

08/21-05/22

OIT Operator

- · Collaborated with hundreds of remote students and professors to understand conflicts with hybrid modalities and requested changes
- · Led professors through classroom environment set-up and troubleshot problems to facilitate improvements in satisfaction among participants, leading to a 25% increase in class engagement
- · Learned and operated five new software packages to support, engage, and guide classroom lessons and functionality

06/21-08/21 BCI, Chicago, IL

Data Analyst Intern

- Wrote scripts and documentation using git/GitHub for automating weekly reports in Python and SQL, allowing low-level employees to produce, distribute, and schedule reports
- · Interacted and communicated with two teams (Data Relevance and Call Center) to identify areas for data optimization and desired metrics
- · Designed visuals in Tableau and Python leveraging packages such as Matplotlib, Seaborn, Pandas, and Altair to cultivate stories and present to management on a weekly basis

PROJECTS

CRYPTO RESEARCHER/VISUALIZER, Python, SOL, Prophet, Pandas, Matplotlib, Git

08/21-09/21

Boulder

- Directed a team in constructing a script for researching, predicting, and quickly visualizing thousands of cryptocurrencies and its time-series data from Coin Gecko API, advancing time it takes to research multiple coins
- · Implemented three automated plot annotations for identifying events in crypto markets potentially affecting prices, enabling users to better understand market conditions
- · Created two custom Plotly graphs to serve as volatility and ticker plots with informative tool-tips

CONGRESSIONAL SPENDING ANALYSIS, Python, Pandas, NumPy, Matplotlib, Seaborn, Git

08/20-10/20

Denver

- · Composed and published a blog post on Medium highlighting comparisons in congressional expenditures across parties and exposed representatives with data backing unethical decisions, totaling over 100 views
- · Designed advanced Seaborn visualizations utilizing Matplotlib for annotations and several additional customizations
- · Imported hundreds of thousands of data points depicting representative expenditures and manipulated/analyzed using Pandas, SQLite, and NumPy

TECHNICAL SKILLS

- Languages: Python, C++, SQL (BQ, MySQL, Postgres), HTML, JavaScript, R
- Frameworks: Node.js, Bootstrap
- · Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio
- · Libraries: pandas, NumPy, Altair, Matplotlib, scikit-learn, TensorFlow