SPENCER ELKINGTON

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EDUCATION

University of Utah *May 2022*
B.S. Quantitative Analysis of Markets & Organizations
Minor Computer Science

Key Skills: Machine Learning, Economics, Strategic Consulting, Data Science, Algorithms, Statistics
Software: Jupyter, Linux, Tableau, Databricks, Apache Spark, Snowflake, AWS, Pivotal, Jira
Languages: Python (preferred), SQL, Lua, TypeScript, JavaScript, C#, C++

EXPERIENCE

Data Analyst, *M Science* *June 2021 - Present*
- Developed and tested **Databricks** prototypes for data categorization pipelines and processes
- Implemented production data pipelines to streamline categorization work and reduce compute costs
- Designed **Tableau** dashboard insights for workflows, data processes, and compute & storage costs

Quantitative Research Intern, *Wasatch Global Investors* *Jan 2020 - May 2021*
- Designed statistical allocation models to market and boost performance of investment portfolios
- Created experiments in **Python** to adapt network and spectrum analyses to financial forecasting
- Developed a **Python/SQL** data pipeline to ease and automate collection of financial data

DevOps Research Intern, *Utah Center for High-Performance Computing* *Mar 2019 - Feb 2020*
- Built a **Kubernetes/Docker** platform to simplify deployment of science apps on cloud edge systems
- Constructed project documentation site in **React.js** to polish appearance for NSF grant proposals
- Researched the use of **Foreman** provisioning software to remotely structure new server clusters

Center Director, *Mathnasium of Utah* *Apr 2018 - Nov 2018*
- Directed the strategy and operations of a K-12 math tutoring center with 80 enrolled students
- Led a team of a dozen skilled math instructors in refining teaching and presentation practices
- Analyzed student testing and progression data to curate & teach individualized learning plans

PROJECTS

PointyPal: A Better Online Campus *2020 - 2021*
- Built a class management application to provide students a better online experience during COVID-19
- Created and moderated a virtual campus for 500+ students to test application prior to opening source
- Conducted A/B testing to polish user experiences, resulting in peak growth rates of 100 users/mo

CoinPal: Trust Your Friends With Your Savings! *2021*
- Created a **Python** application to allow group chats to jointly manage a cryptocurrency portfolio
- Implemented a custom API to allow secure & limited interaction between voting clients and app server

Beethoven, *2nd Place out of 30 teams* *HackTheU 2019*
- Designed a closed captioning and audio transcription service for deaf and hard-of-hearing students
- Built a peer-to-peer text & audio streaming **TypeScript** app using **Node.js & React**

Robloxaville *2017 - 2018*
- Remastered a popular **Lua** game on the ROBLOX platform, supporting both PC & mobile gameplay
- Engineered project to patch security flaws and emphasize project maintainability and scalability

References available by request
Full Resumé Source