

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, Pivotal Tracker, AWS

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**

Robloxville

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