

# SPENCER ELKINGTON

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## EDUCATION

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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

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**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

**SLATE Dev Intern**, *Utah Center for High-Performance Computing*

Mar 2019 - Feb 2020

- Built a **Kubernetes/Docker** platform to simplify deploy 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 a dozen skilled math instructors in refining teaching and center presentation practices
- Analyzed student testing and progression data to curate & teach individualized learning plans

## PROJECTS

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**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*