

SPENCER ELKINGTON

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EDUCATION

University of Utah

December 2021

B.S. Quantitative Analysis of Markets & Organizations

Minor Computer Science

Skills: Data Structures, Algorithms, Data Science, [Machine Learning](#), Software Engineering, Statistics

Languages: **Python** (preferred), **C++** (preferred), SQL, C#, JavaScript, Lua

Technologies: Linux, Docker, Tableau, Git, Jupyter, Excel/VBA, SKLearn

EXPERIENCE

Quantitative Research Intern, *Wasatch Global Investors - Remote*

Jan 2020 - Current

- 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 financial data mining library to ease and automate collection of unique data sets
- Designed **Tableau** dashboards to tell quantitative stories using data visualization dashboards

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

Mar 2019 - Feb 2020

- Built a **Kubernetes/Docker** platform to simplify deployment of science apps on distributed systems
- 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
- Analyzed student testing and progression data to curate & teach individualized learning plans

PROJECTS

PointyPal: A Better Online Campus

- Built a class management application to provide students a better online experience during COVID-19
- Created and moderated a virtual campus for 450+ students to test application prior to opening source
- Conducted A/B testing to solve user needs, resulting in peak growth rates of 100 users/mo

Beethoven, *2nd Place out of 30 teams*

HackTheU 2019

- Designed a closed captioning and audio transcription service for deaf and hard-of-hearing students
- Created a **TypeScript** and web app in **Node.js & React** for peer-to-peer text & audio streaming

LED Music Visualizer

- Created a **C++/Python** system for real-time music data analysis and visualizations
- Designed a **Python** music visualization tool for prototyping analysis & visualization algorithms

ACTIVITIES

VP → President, *Utah Chapter of Triangle*

Apr 2019 - Current

- [Reconstituted chapter](#) and passed down a 3-year plan to ensure future organizational stability
- Pivoted chapter functions to accommodate a fully-online environment during the 2020-2021 terms
- [Redesigned & presented](#) governing organization designs to provide a better environment for growth

Genome Analysis Tutor, *University of Utah*

Fall Term, 2017

- Organized & lead a free **Python** tutoring group for a [graduate anthropology course](#)
- Utilized stochastic learning algorithms to track genetic drift in time-series genetic datasets

References available by request

[Full Resume Source](#)