

SPENCER ELKINGTON

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EDUCATION

University of Utah

December 2021

B.S. Quantitative Analysis of Markets & Organizations

Minor Computer Science

Skills: [Economics](#), [Machine Learning](#), [Econometrics](#), Algorithms, Statistics, Technical Writing

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

Technologies: Linux, Docker, Tableau, Git, Jupyter, Excel/VBA, Scikit-Learn

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 visualizations and dashboards in **Tableau** to tell intuitive stories with data

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

Mar 2019 - Feb 2020

- Constructed project documentation site in **React.js** and monitored site and project metrics
- Built a **Kubernetes/Docker** platform to simplify deployment of science apps on distributed systems

Center Director, *Mathnasium of Utah*

Apr 2018 - Nov 2018

- Taught K-12 core and supplemental curriculum to students across varying skill levels and backgrounds
- Developed creative and intuitive teaching methods to cover a range of students learning methods

Programming Instructor, *University of Utah Summer Camps*

May 2018 - July 2018

- Collaborated with a small team to design and teach a two-month computer programming curriculum
- Implemented data structures/algorithms, such as recursive sorts and Voronoi partitioning, in **Scratch**

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
- Built a peer-to-peer text & audio streaming **TypeScript** app using **Node.js & React**

ACTIVITIES

VP of Education → 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](#)