

# SPENCER ELKINGTON

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## EDUCATION

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**University of Utah**

*December 2021*

*B.S. Quantitative Analysis of Markets & Organizations*

*Minor Computer Science*

**Skills:** Data Science, [Economics](#), [Machine Learning](#), Algorithms, Statistics, Game Dev, [Econometrics](#),

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

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

## EXPERIENCE

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**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*

- 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

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**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

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**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](#)*