

# 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:** [Data Structures & Algorithms](#), [Data Analytics](#), [Software Dev](#), [Strategic Consulting](#), Statistics

**Software:** Databricks, AWS, Apache Spark, Snowflake, Tableau, Linux

**Languages:** [Python](#), [TypeScript](#), [Lua](#), SQL, JavaScript, C#, C++

## EXPERIENCE

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**Data Engineer**, *M Science ♦ Jefferies Bank*

June 2021 - Present

- Develop fast & scalable **Databricks/PySpark** ETL pipelines for petabyte-scale economic data
- Design cluster profiling frameworks to assess compute inefficiency & propose infrastructure solutions
- Investigate & implement **AWS/Spark** optimizations to boost ETL task efficiency by as much as 90%
- Build & present **Tableau** dashboards for pipeline performance analytics & business cost insights

**Quantitative Data Analyst Intern**, *Wasatch Global Investors*

Jan 2020 - May 2021

- Developed a **Python/SQL** data pipeline to ease and automate collection of financial data
- Designed statistics allocation models to market and boost performance of investment portfolios
- Created experiments in **Python** to adapt network and spectrum analyses to financial forecasting

**Dev Ops Research 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
- Constructed & wrote project documentation site in **React.js** to polish appearance for NSF grants

## INDEPENDENT PROJECTS

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**PointyPal: A Better Online Campus**

2020

- Built a class management app to provide students a better online experience through COVID-19
- Created and moderated a virtual campus for 600+ 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

**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**

**Robloxaville**

2018

- Remastered a popular **Lua** game on the ROBLOX platform, supporting both PC & mobile gameplay
- Engineered project to patch security vulnerabilities and emphasize project maintenance and scalability

## LEADERSHIP

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**VP of Education → President**, *Utah Chapter of Triangle Engineering*

2019 - 2021

- Created online infrastructure to balance member needs and community safety during COVID-19
- Redesigned governing organization to provide a better environment for org growth & self-governance

**Genomic Data Science Tutoring**, *University of Utah*

2017

- Organized & lead a free **Python** tutoring group for a graduate genetic anthropology course
- Utilized stochastic learning frameworks to help students understand large genetic systems & data

*References available by request*

*Full Resumé Source*