

SPENCER ELKINGTON

Salt Lake City, UT ♦ (775) 388-7033

spelkington@gmail.com ♦ [linkedin.com/in/spelkington](https://www.linkedin.com/in/spelkington) ♦ spelkington.github.io

EDUCATION

University of Utah

August 2022

Bachelors of Science / Quantitative Analysis of Markets & Organizations

Minor / Computer Science

Key Skills: [Data Analytics](#) | [Data Visualization](#) | [Software Development](#) | [Data Structures](#) | [Algorithms](#)

Software: Databricks | Tableau | Apache Spark | Snowflake | AWS | Kubernetes | Docker | Linux

Languages: [Python](#) | [TypeScript](#) | Lua | SQL | Bash/Shell | C# | Java

EXPERIENCE

Senior Data Analyst | *M Science: Sundial Transact*

June 2021 - Present

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

Quantitative Research Intern | *Wasatch Global Investors*

Jan 2020 - May 2021

- Researched portfolio allocation models to fine-tune performance of multi-billion dollar portfolios
- Developed **Python/SQL** pipelines to ease and automate collection & aggregation of financial data
- Created experiments in **Python** to adapt network and spectrum analyses to detect asset alpha signals

Network Research Intern | *Utah Center for High-Performance Computing*

Mar 2019 - Jan 2020

- Built a **Kubernetes/Docker** platform to simplify large-scale distributed scientific app deployments
- Constructed & wrote project documentation site in **React.js** to polish appearance for NSF grants

INDEPENDENT PROJECTS

PointyPal: A Better Online Campus

2020-2021

- 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 with 8M+ unique plays on the ROBLOX gaming CDN platform
- Engineered project to patch security vulnerabilities and emphasize project maintenance and scalability

LEADERSHIP

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 Résumé