

# SPENCER ELKINGTON

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Salt Lake City, UT

## EDUCATION

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University of Utah

2022

*Bachelor of Science | Quantitative Analysis of Markets & Organizations*

*Minor | Computer Science*

**Key Skills:** [Data Analytics](#) | [Data Storytelling](#) | [Tech Presentation](#) | [Software Dev](#) | CI/CD

**Software:** [Apache Spark](#) | Apache Airflow | AWS | Databricks | Tableau | Linux | Docker

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

## EXPERIENCE

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**Data Engineer** | *M Science*

June 2022 - Present

- Plan & construct unified DataOps infrastructure to streamline financial research operations
- Investigate & implement **AWS** and **Spark** optimizations to reduce ETL job costs by as much as 90%
- Create infrastructure profiling frameworks to assess **AWS** compute cost inefficiency & design solutions
- Construct **AWS CI/CD** DevOps pipelines for end-to-end **Python/SQL** ETL dev lifecycles
- Recruit & train new Analysts, Engineers & Project Managers to grow site team by 50%

**Senior Data Analyst** | *M Science*

June 2021 - May 2022

- Develop fast & scalable **Python/Spark** ETL pipelines for large-scale economic data sources
- Build & present **Tableau** dashboards for pipeline performance analytics & business cost insights
- Fine-tune parameters for mission-critical economic data categorization pipelines

**Quant Research Intern** | *Wasatch Global Investors | \$31B AUM*

Jan. 2020 - May 2021

- Researched portfolio allocation models to fine-tune allocation strategy across varied investment styles
- Developed **Python/SQL** pipeline infrastructure to automate and backtest financial data analyses
- Designed **Tableau** dashboards to monitor portfolio health & risk throughout pandemic markets

**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
- Researched the use of **Foreman** build/deploy systems to remotely structure new server cluster pools

## INDEPENDENT PROJECTS

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**Independent Game Development** | *ROBLOX*

May 2018 - Present

- Balanced freelance, contract & hobby **Lua/TypeScript** game development & game data analytics
- Remastered & fully refactored a popular legacy lifestyle/sim game with 8 million unique plays
- Created a custom **Google Cloud** gameplay analytics pipeline to monitor KPIs & explore play trends

**Using Spark Structured Streaming to Scale Your Analytics** | *Databricks*

June 2022

- Balanced freelance, contract & hobby **Lua/TypeScript** game development & game data analytics
- Remastered & fully refactored a popular legacy lifestyle/sim game with 8 million unique plays
- Created a custom **Google Cloud** gameplay analytics pipeline to monitor KPIs & explore play trends

**PointyPal: A Better Online Campus**

Aug. 2020 - Dec. 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

**Beethoven** | *HackTheU Hackathon | 2nd Place out of 30 teams*

Aug 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** application stack using **Node.js & React**