SPENCER ELKINGTON

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Salt Lake City, UT

EDUCATION

University of Utah   *August 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 | EC2 | Terraform | GitHub Actions | Databricks | Snowflake | Tableau
Languages: Python | TypeScript | Lua | SQL | Java | C# | C++ | Bash/Shell | LaTeX | Scala

EXPERIENCE

Software Engineer, DataOps | *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 DataOps **CI/CD** pipelines for end-to-end **Python**/**SQL** ETL dev lifecycles
- Recruit & train new Analysts, Engineers & Project Managers to grow site engineering team by 50%

Senior Data Analyst | *M Science*   *June 2021 - May 2022*
- Developed fast & scalable **Python**/**Spark** ETL pipelines for large-scale economic data sources
- Architected internal software library for accurate & efficient analysis modules used across all research
- Built & presented **Tableau** dashboards for pipeline performance analytics & business cost insights
- Fine-tuned 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

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*
- Generated independent blog post for Databricks about Structured Streaming, an Apache Spark feature
- Rolled blog post into M Science engineering marketing, prompting the creation of an engineering blog

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 and opened source for use at 4 universities

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**