

SPENCER ELKINGTON

[WEBSITE](#) | [GITHUB](#) | [EMAIL](#) | [LINKEDIN](#)

SALT LAKE CITY, UT

EDUCATION

University of Utah

Aug 2022

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

Salt Lake City, UT

Emphasis | *Business Economics, Matchmaking, Non-Market Environments*

Minor | *Computer Science*

Expertise: [Application Eng.](#) | [Agentic Systems](#) | [Economics](#) | [Data Eng.](#) | [CI/CD](#)

Software: Github Actions | NX | ASP.NET | Apache Spark | AWS (ECS/EC2, RDS)

Languages: [C#](#) | [TypeScript](#) | [Python](#)

EXPERIENCE

[Developer Experience & Backend Software Engineer](#) | [Constituent Voice](#) March 2024 - Present

Creating software & applications to connect voters to their representatives

Remote

- Rollout LLM agent tooling in developer and deployment workflows for fully autonomous ticket resolution
- Develop testing & CI/CD frameworks to minimize regression risk in **ASP.NET** and **React Native** apps
- Orchestrate codebase consolidation via **NX** to de-silo dev teams and introduce end-to-end testing

[Backend Software Engineer](#) | [Constituent Voice](#)

Jan 2023 - March 2024

- Create **Terraform/AWS** deployment systems, reducing new AWS application spin-up times by >90%
- Port legacy microservices to **ASP.NET/EFCore** to boost capacity of Congressional scheduling services
- Lead & manage creation of unified **GitHub Projects** scheduling system to de-silo development work

[Software Engineer, DataOps](#) | [M Science](#)

June 2022 - Feb 2023

- Lead implementation of **Spark/AWS** optimizations, resulting in >\$1M annual compute cost reductions
- Constructed optimized and durable ETL processes for [cornerstone TMT/games reporting](#)
- Planned & constructed unified DataOps & statistics libraries to streamline financial research operations

PROJECTS

[Flowthru: Type-Safe ETL Framework for .NET](#) | [CGC](#)

June 2022

- Architected a data engineering framework for compile-time, type-safe ETL pipelines in **C#/.NET**
- Exercised API surface-first design philosophy for intuitive developer onboarding & reliable agentic usage
- Designed **NUnit** extended testing capability for code coverage from end-to-end, real-world pipeline cases

[MagicAtlas: Analytics, APIs, and Query Languages for MTG](#) | [CGC](#)

June 2022

- Designed an analytics suite for rules and card analysis of Magic: The Gathering rules and game data
- Created a custom **NUnit** [ratcheted testing framework](#) for scalable test case creation

[Using Spark Structured Streaming to Scale Your Analytics](#) | [Databricks](#)

June 2022

- Guest-authored engineering blog post about **Spark** Streaming-based ETL process cost optimizations
- Design introductory tutorials and reference for both business- and developer-focused audiences

[PointyPal: A Better Campus During Quarantine](#) | [Triangle Engineering](#)

Aug 2020 - Dec 2021

- Built a class management wrapper for Discord to assist students with online learning during COVID-19
- Created and moderated a 600-student online campus, opening source for deployment across 4 universities
- Conducted A/B testing to polish user experiences, resulting in peak growth rates of 100 users/mo