

# SPENCER ELKINGTON

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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

- Roll out LLM agent tooling in developer and deployment workflows for autonomous ticket resolution
- Develop testing & CI/CD frameworks to minimize regression risk in **ASP.NET** and **React Native** apps
- Orchestrate codebase consolidatively on 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 and analytics](#)
- Planned & constructed unified DataOps & statistics libraries to streamline financial research operations

## PROJECTS

**Flowthru: Type-Safe ETL Framework for .NET** | [CGC](#) Oct 2025 - Present  

- 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](#) Oct 2025 - Present  

- 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