

SPENCER ELKINGTON

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SALT LAKE CITY, UT

EDUCATION

University of Utah Aug 2022
Bachelor of Science | Quantitative Analysis of Markets & Organizations
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**
• 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