# Austin Miller

S o f t w a r e   e n g i n e e r

## Profile

I am a software engineer based in Denver with multiple years of experience with JavaScript, Ruby, and a variety of frameworks. I also have experience with Go, Docker, React, and AWS. I'm passionate about writing clean, efficient code for scalable distributed systems, writing RESTful and event-driven APIs, and approaching new challenges.

## Experience

### Co-Creator, Software Engineer, Fjord Framework  / *May 2021 – present*

https://fjord-framework.github.io/

Fjord is an open-source framework for streaming Kafka data to internet-facing users. The Fjord CLI allows you to deploy and tear down more than 40 AWS resources that comprise a robust, highly available, horizontally scalable infrastructure to securely stream Kafka data to desired end users.

- Contributed to solution architecture, initial workflow diagrams, and design patterns
- Assembled a multi-broker, distributed Kafka cluster with security (firewall, SASL-PLAIN authentication) to use to test with Fjord
- Built Kafka consumer groups using the KafkaJS framework
- Containerized SSE web server and Kafka consumer groups
- Implemented AWS ECS Clusters for the SSE servers and Kafka consumer groups using Fargate launch type, Elasticache for Redis as a publish-subscribe mechanism between the Kafka consumer groups and the SSE servers
- Automated the deployment of 40+ AWS resources using the AWS CDK
- Implemented unit tests for Fjord server and consumer using Jest, contributed to load testing the SSE server using Gatling
- Collaborated daily with a small team of fully remote engineers
- Co-authored a comprehensive technical case study documenting design decisions

### Full Stack Web Developer *self-employed*  / *March 2020 – May 2021*

- Rello: A Trello-inspired Kanban board (React/Redux, Express, MongoDB)
- AskBox: A RequestBin clone for receiving and debugging webhooks (Node JS, Express, Redis, Ngrok)
- Routes: A Dockerized SPA showing filterable airline routes with an SVG map (React, Docker)
- TaDa: A todo management app (Ruby, Sinatra, PostgreSQL, Heroku, ERB)
- Content: A file-based CMS app with user authentication (Ruby, Sinatra, ERB, BCrypt)
- Contacts: A CRUD web app for managing contacts with an async search UI (Node JS, Express, Handlebars)
- ruby_blogger: A developer tool to track statistics about exceptions thrown by .rb files (Ruby)

### Research Analyst *at Denver Museum of Nature and Science / August 2018 – March 2020*

- Scoped and managed studies for programs and exhibits
- Analyzed, visualized, and reported results to museum stakeholders, advising stakeholders on strategic initiative policies and projects

## Education

### Launch School */ March 2020 – May 2021*

- A full stack software engineering curriculum emphasizing mastery of core fundamentals and problem-solving – https://launchschool.com/employers

### University of Colorado at Boulder */ August 2010 – May 2014*

- BA, double major in linguistics and communication, minor in French

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## Skills

### Languages

JavaScript, Ruby, Go, SQL, HTML, CSS

### Frameworks

Express, React/Redux, Sinatra, jQuery, Handlebars, KafkaJs

### Technologies

Docker, PostgreSQL, NoSQL (MongoDB, Redis), Git/GitHub, HTTP, REST APIs, realtime APIs, EDA, webhooks, Kafka, Gatling, Linux

### AWS Cloud

EC2, ECS, Fargate, Cloud Development Kit, Elasticache, Auto-Scaling Groups, CloudWatch, ALB, VPC