Austin Miller

Software Engineer

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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 APIs, and approaching new challenges.

Professional Experience

Co-Creator, Software Engineer, *Fjord Framework* ⧉   05/2021 – present

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*   03/2020 – 05/2021

- 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 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, *Denver Museum of Nature and Science*   08/2018 – 03/2020 | Denver
- Scoped and managed studies for programs and exhibits
- Analyzed, visualized, and reported results to museum stakeholders, advising on strategic initiative policies and projects

Education

Launch School ⧉   03/2020 – 05/2021

A full stack software engineering curriculum emphasizing mastery of core fundamentals and problem-solving

BA, Linguistics, *University of Colorado at Boulder*   08/2010 – 05/2014 | Boulder

Skills

Languages
JavaScript, Ruby, Go, SQL, HTML, CSS

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

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

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