

Sam Tran

| **Backend Web Developer | Software Engineer | Ruby on Rails |**
(720) 691-6331 | Denver, CO | samueltran@gmail.com | [GitHub](#) | [LinkedIn](#)

SKILLS

Languages/Frameworks: Ruby, Rails, ActiveRecord, SQL

Testing: Test Driven Development, RSpec, Capybara, FactoryBot, Faker, WebMock, VCR, Postman

Tools/Workflows: Git, GitHub, MVC, OOP, Rest APIs, GraphQL, Observability, Redis, Sidekiq, Heroku, Render

Exposure: CSS, HTML, JavaScript, Node.js, Express, React, Java, Spring Boot, Docker

PROJECTS

WeatherTogether (group) - [WeatherTogether GitHub Organization](#) | [WeatherTogether Live Deploy](#) **Feb 2024**

Created a weather game web application on a full stack team where users guess the location of real-time weather snapshots from random global locations, aiming to educate the public and enhance awareness of global climate trends in an interactive manner.

- Designed database, established Rest API endpoints, implemented observability to monitor and identify areas of low responsiveness, then improved user experience using background workers and/or low-level caching of data queries and API calls.
- Utilized Spring Boot and Docker to integrate a microservice for the display of location-specific facts and imagery in order to elevate user engagement and deepen educational experiences within the game.
- Tech Stack: Ruby, Rails, Java, Spring Boot, Postgresql, CircleCI, Heroku, Observability, Redis, Sidekiq

Tavern Keeper (group) - [Tavern Keeper GitHub Organization](#) **Feb 2024**

Led a collaborative effort with a frontend team to plan and implement an Encounter Builder for Dungeons and Dragons, streamlining the gameplay experience for dungeon master users.

- Developed backend GraphQL API query and mutation endpoints, seamlessly integrating external GraphQL APIs to enrich data retrieval and manipulation processes.
- Utilized Ruby on Rails for data handling and processing, leveraging GraphQL for optimized queries, and conducted comprehensive unit and integration tests using RSpec to ensure code reliability and scalability.
- Tech Stack: Ruby, Rails, GraphQL, Postgresql, CircleCI, Render, Postman

Viewing Party Lite (paired) - [Viewing Party GitHub Repo](#) **Nov 2023**

Developed an application for movie exploration and viewing party event creation. Successfully collaborated with project partners to establish an efficient workflow, combining paired programming sessions with asynchronous contributions.

- Implemented API consumption and further refactored using a facade, service, and PORO design pattern to enhance code organization and testability. Project was utilized as an instructional tool for future students.
- Tech Stack: ActiveRecord, Ruby, Rails, SimpleCov, RSpec, SQL, Postico

RELEVANT PROFESSIONAL EXPERIENCE

- **Substitute Instructor | HelloSubs, Denver CO** **Aug 2023 - Current**
- Adapted instructional materials to suit the needs of different students for math, science, and engineering classes, fostering an inclusive learning environment

Biologist and Data Management | Novus Biologicals, Centennial CO **Aug 2017 - Feb 2019**

- Improved process efficiency by learning and implementing VBA Excel macros for data cleansing, resulting in a reduction in processing time from several days to just a couple hours.
- Created comprehensive onboarding materials and successfully instructed and mentored new team members.

Technologies Instructor | Open World Learning, Denver CO **Jan 2016 - Jul 2016**

- Delivered comprehensive instruction to classes of 25 of students, covering fundamental technology and programming concepts to foster their foundational skills in the field.
- Guided and mentored a team of four students, resulting in a notable achievement of securing second place over competitors from 15 different teams in a end-of-year tech challenge competition.

Environmental Engineer | Marquez Environmental Services, Golden CO **Oct 2014 - Dec 2015**

- Stayed current on federal and state air quality regulations to adaptively provide client-specific technical guidance, ensuring a thorough understanding of environmental laws, regulations, and compliance requirements.
- Implemented comprehensive air quality compliance tracking systems for oil and gas facilities, utilizing databases and Excel for accurate data management resulting in a 100% success rate in permit application approval.

EDUCATION

Accredited Backend Engineering Certificate | Turing School of Software & Design | Aug 2023 - Mar 2024
BS in Chemical and Biological Engineering | Colorado School of Mines | Aug 2009 - May 2013