

Isaac Mitchell

Software Engineer

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Summary

Experienced software engineer with a background in biology and chemistry, transitioning from an 8+ year career in quality assurance. Specialized in Angular, TypeScript, Ruby on Rails, SQL, REST APIs, and Playwright. Dedicated to writing clean, scalable, maintainable code, adhering to best practices. Effective at communicating technical concepts to diverse audiences and collaborating across teams to achieve business solutions. Proficient in creating responsive, appealing front-end interfaces using modern frameworks and technologies.

Technical Skills

Languages & Frameworks: Angular, TypeScript, Playwright, Ruby on Rails, SQL, CSS, HTML, Bootstrap, Flexbox, REST APIs

Testing: TDD, Playwright, Postman, RSpec, Capybara, Pry, FactoryBot, Orderly, Webmock, VCR, Observability

Tools & Workflows: Agile workflow, Git, GitHub, Heroku, Postico

Developing Knowledge/Areas of Interest: Python, Java, React, SpringBoot, Python, NoSQL, AWS

Education

Certificate in Back-End Software Engineering 04 | 2024
Turing School of Software and Design

Bachelor of Science in Biology 05 | 2013
Kent State University, Kent, OH

Projects

Chicken Tracker - (Team) - [FE Repo](#) | [BE Repo](#) | [Live Site](#)

Ruby on Rails based farm management app that allows homesteaders to track their animals, health schedules, and personalize attributes for more connection and peace of mind over their outdoor furry friends.

- Implemented a **SOA** by connecting FE/BE through API calls using the Faraday gem.
- Structured and refactored code using a **facade/service** model for sleek and readable controller actions.
- Applied **Test Driven Development** from the ground up using tools such as **RSpec**, **Webmock**, **Capybara**, **Pry**.
- Explored new skills with key tools including Bootstrap, **CSS**, **OAuth 2.0** and implementing timed inactive logout.

Platform - (Team) - [Repo](#)

Aggregator that lets users view social media content from several platforms like Twitter, Twitch, and Youtube in one location.

- Utilized observability tools like **Honeycomb** to monitor errors and identify key areas for **caching**.
- Implemented caching using Rails storage to improve response time **90%** for external API requests.
- Developed a Javascript microservice to consume and deliver YouTube video information.

Professional Experience

Software Engineer Intern – Clinical Net, London, United Kingdom 2024 - current

- Refactored automated testing repository into a clean, organized codebase using the Page Object Model (POM) in under two weeks, enhancing test maintainability and improving flakiness by 25%.
- Improved user experience by integrating instructional video modals and refactoring tooltip code into a streamlined component-based architecture on key production pages.
- Contributed to internationalization efforts by implementing translations and managing localized files for a global audience.
- Actively participated in code reviews and team discussions, contributing to a collaborative startup environment.

Analytical Specialist – MolsonCoors, Golden, Colorado 2019-2023

- Demonstrated technical adaptability and commitment by becoming an expert in analytical instrumentation (**GC/HPLC**), securing **IBD certificates** in brewing and packaging, engaging in **Six Sigma** and statistical process control training, and ascending to a **top-three taster** at the world's largest brewery within three years.
- Spearheaded development and implementation of a pilot project to assess the feasibility of launching Blue Moon Iced Coffee Blonde, a new multi-million dollar brand initiative. Successfully demonstrated the product's viability, paving the way for its successful market introduction.