

# Brendan Tsuda

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San Francisco, CA

[Portfolio](#)

[LinkedIn](#)

[GitHub](#)

## Skills

React.js, Redux, JavaScript, TypeScript, Ruby, Ruby on Rails, Golang, Python, Swift, HTML/CSS, Tailwind CSS, SQL, PostgreSQL, MySQL, Node.js, Express.js, MongoDB, Amazon Web Services (AWS), Google Cloud Platform (GCP), Docker, Git, Agile Methodology, Jira

## Experience

**Software Engineering Intern** | May 2023 - Present

Grid

- Implement a web scraper using Puppeteer to extract and store financial data leveraging HAR files and set up efficient pubsub connections facilitating seamless communication between microservices through protobufs.
- Led the development of a complete [website](#) redesign project, utilizing Gatsby and Sanity.io as a CMS, enabling non-engineers to effortlessly modify page content.
- Crafted user-friendly UI components, utilizing remote procedure calls, to efficiently retrieve and manage data in Redux state, optimizing an admin tool for seamless customer inquiry handling by the operations team.
- Employ continuous integration and delivery (CI/CD) practices using Azure DevOps and GitHub Actions and testing in staging environments, contributing to a streamlined development workflow.

**Full Stack Mobile Engineer Intern** | March 2023 - May 2023

PlayPart Inc.

- Deployed a production-level Ruby on Rails backend application on a server using Capistrano, which involves configuring and maintaining AWS cloud services, including S3 bucket, EC2 instance, and load balancers.
- Collaborated with UI/UX designer to turn Figma designs into Swift storyboard interfaces for an iOS mobile application, integrating segueways and IBActions to ensure seamless navigation and user interaction.

## Projects

**Lifelight Coffee** (JavaScript, React / Redux, Ruby on Rails, PostgreSQL, HTML, CSS, AWS)

[live site](#) | [github](#)

*A coffee e-commerce website clone where users can view, purchase, review, and search for various coffee products.*

- Streamlined data modeling in a relational database by integrating custom SQL queries to organize products by category, leading to a 25% reduction in data retrieval time and increased database efficiency.
- Leveraged local Redux state to conditionally render and style selected purchasing options for each coffee product, resulting in a more dynamic and intuitive UI/UX.

**.catch()** (JavaScript, React / Redux, Mongoose.js, MongoDB, Express.js, Node.js, HTML, CSS, AWS)

[live site](#) | [github](#)

*A modern dating web app designed for software engineers to connect and communicate with others in the industry.*

- Directed the backend development efforts by designing RESTful API services in Express.js.
- Developed a user profile algorithm that generates instant matches and initial messages for demonstration purposes, showcasing the platform's capabilities and improving user engagement.
- Actively participated in code reviews and discussions, which resulted in identifying and debugging 30% more issues in the codebase, improving code quality and maintainability.

**Tanks** (HTML, Canvas API, JavaScript, CSS, Webpack)

[live site](#) | [github](#)

*A fully interactive object-oriented JavaScript and HTML Canvas game based on the classic Nintendo game Wii Play.*

- Implemented a custom physics engine capable of supporting collision detection and management for up to 100 objects simultaneously on the screen, enabling a more engaging gameplay experience.

## Education

**App Academy** | November 2022 | San Francisco, CA

Immersive software engineering bootcamp with focus on full stack web development

**University of California, Berkeley** | May 2021 | Berkeley, CA

College of Chemistry, Bachelor of Science in Chemical Biology