

Brennan Romance

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SKILLS: JavaScript, Ruby, Python, C++, TypeScript, React.js, Ruby on Rails, Express.js, Node.js, Flask, Django, Redux.js, jQuery, SQL, NoSQL, PostgreSQL, SQLite, MongoDB, Git, UNIX, HTML, CSS, OOP, TDD, Big-O, Jira, Agile, Heroku, GCP, AWS, Docker

EXPERIENCE

Software Engineer

Bloomberg LP, APR 2021 - Present

- Training projects: (1) Currency exchange rates backend service (Python) Including an xml service schema, a data access model (using SQL + Python), and routes created through test-driven development. (2) Corporate Events calendar application using Bloomberg's proprietary UI Framework Rapid (TypeScript)
- Research Discoverability team: Work to make Bloomberg's wealth of company documents and research easy to navigate for buy-side analysts
- Develop and deploy production services in C++ exposing new functionality for company document retrieval based on bloomberg industry classifications. Improvements used by over 20 downstream services daily.
- Updated UI (React/TypeScript) to filter documents for Analyst Actions (ie. ratings, target price or coverage changes) and industry classification on an application used by ~10k - 15k users per day

Open-Source Software Contributor

Volunteer Social Developer on Github, AUG 2020

- Contributed code to [Public Lab](#)/Leadlet.DistortableImage: [Issue #722](#) Transition JavaScript methods from ES5 to ES6 syntax
- Added documentation to [Ember.js](#)/Ember.js framework: [Issue #19201](#) Show example of action call using the {{on}} modifier inside an input component. Available with Ember Octane and later versions

Jr. Software Engineer, Marketing Technologies

Medigap Life, JUNE 2020 - DEC 2020

- MarTech engineer responsible for all technologies related to marketing lead generation
- Created WordPress marketing landing pages and Implement prospect tracking such as TCPA verification API, Facebook Pixel and Google Analytics/Tag Manager
- Developed workflow services feeding formatted, real-time campaign analytics from Facebook Marketing API to company CRM to gauge marketing expenses and performance
- Contribute to Node.js server leveraging Twilio API to route inbound leads to the appropriate agents, automate SMS conversations, send call notifications, and authenticate leads

PERSONAL PROJECTS

Cache Out

[Live](#) | [Repo](#)

My own rendition of the popular stock trading app Robinhood - simulates managing a real portfolio for "practice investing"

- Utilizes a Ruby on Rails back-end for its customizable rake tasks and a React.js/Redux.js front-end for its rich selection of data visualization libraries
- Prevents users from making fraudulent transactions through rails controller and model level validations, simulating real-life trading and preserving the application's integrity
- Minimizes Redux state and external API call volume by employing ternaries to retrieve only the necessary graph price data
- Calculates "snapshots" of each user's total portfolio balances at designated times using Heroku scheduler and rails rake tasks, assembling the data necessary to visually represent portfolio performance over time
- Maintains secure front-end to back-end user authentication using the BCrypt gem to salt, hash and retrieve passwords

Beat Laboratory

[Live](#) | [Repo](#)

A fun, sandbox-type application where users can experiment with creating beats on a virtual drum set

- Engineered application to be as lightweight as possible, no packages used throughout the entire project
- Leveraged Object-oriented Javascript to construct the three main classes: the beat table, tempo bar and index
- Executed a setTimeout function upon render with user determined values to automate tempo bar incrementation
- Manipulated the dashboard elements using class lists to display the appropriate navigation options available to the user

Thought Board

[Live](#) | [Repo](#)

A virtual cork board for visually organizing notes and pictures

- Collaborated with three colleagues building this application using a MERN stack (MongoDB, Express.js, React.js and Node.js)

selected for its ease of deployment and single programming language

- Installed Multer middleware and AWS S3 libraries to provide image upload capabilities and rapid retrieval
- Incorporated Draggable.js and thunk actions to let users rearrange notes and immediately preserve their new positions
- Leveraged Canvas.js and window coordinates to build a connection line between two notes

EDUCATION

App Academy - Immersive software engineering bootcamp with a focus on full stack web development (DEC 2019 - APR 2020)

Florida State University - *BS - Business Management* (Fall 2013 - Summer 2017)