

Sean Richardson

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Profile

I'm a fullstack software engineer who loves working on a team and is passionate about fighting climate change. I am proficient with JavaScript, React, and Ruby and am comfortable with Python, Docker, Go, and AWS.

Professional Experience

Co-Creator, Software Engineer, Mar 2022 – present
Waypost (waypost-io.github.io) 

Designed and built Waypost, an open-source, lightweight, self-hosted feature flag management platform that specializes in A/B Testing. (Node.js, React/Redux, Express, PostgreSQL, EventSourceAPI, Axios, TailwindCSS)

- Collaborated on the design of the architecture and Dockerization of the platform
- Led the design of the Feature Flag Manager App's backend server, which included building a RESTful API and the PGTable class which dynamically creates and runs SQL statements for various tables
- Refactored the backend server to increase readability and efficiency
- Created the hashing algorithm used in the SDKs to place users into treatments
- Designed and created ERDs to handle the storage of A/B testing data
- Implemented A/B testing functionality in the UI by building Database Connection and New Experiment form components in React
- Utilized Redux to store data in the Manager App's UI obtained from API calls
- Contributed to styling the UI using TailwindCSS
- Increased team productivity by reviewing code and pair programming to remove blockers
- Led the creation and editing of the comprehensive technical case study , documenting design decisions and the problem domain

Full-Stack Web Developer, Self-Employed Nov 2020 – Mar 2022

Developed open-source software, some highlighted projects include:

- **HookTester**, a RequestBin clone that allows one to test and debug webhooks (MongoDB, Express, React)
- **Wello**, a Kanban style Trello board clone (MongoDB, Express, React, Redux, Axios)
- A **Rabbit MQ** server for the Earthshot Forest Team's AI tool to detect forest change using satellite data (Python, RabbitMQ)

Data Analyst, Writer, Editor, Website Designer, TXDC Apr 2020 – Jul 2021

- Created the website, newsletter and political data reports (Python, Pandas, Plotly, Numpy, Microsoft Office)

Skills

Languages

JavaScript (ES6), Ruby, Go, Python, SQL, HTML, CSS

Technologies

PostgreSQL, MongoDB, Docker, Git/GitHub, HTTP, REST APIs, SSE, webhooks


Frameworks

Express, React/Redux, Sinatra, jQuery, Handlebars, TailwindCSS

Cloud

AWS (EC2, Elastic Beanstalk, S3), Heroku, Digital Ocean Droplet

Education

Launch School  Nov 2020 – May 2022
Ruby Back-end Track, JavaScript Front-end Track, Capstone.

University of Maryland, College Park, Aug 2014 – May 2018
BS - Civil & Environmental Engineering, Minor - Sustainability Studies
Grade Point Average: 3.33, Dean's List Spring 2015, Fall 2015, Fall 2016

Certificates

- Climate Change for Software Engineers 