Vlad Bulvakhter

415-260-7829 vbulvakhter@gmail.com Portfolio LinkedIn GitHub San Francisco

SKILLS

Python, Postgres, Node.js, JavaScript, TypeScript, React, Vue, D3, Express, Ruby, Ruby on Rails, SQL, Webpack, Async IO

PATENTS

"Camera Calibration Process and Interface" - US Patent Application No. 63/418,380 - Filing Date: October 21, 2022 - Patent Pending

EXPERIENCE

Full-Stack Software Engineer
Dexterity Robotics, Redwood City, CA   October 2021 - May 2023

- Developed RESTful APIs using Node.js, Socket.io, and the Express framework to enable seamless data transfer and communication between client-side and server-side applications for robot operations, leveraging the MVVM design pattern.
- Designed and implemented support and internal tooling using Node.js, Vue.js, and Docker for multiple teams across the robotics platform, resulting in a 28% decrease in support escalations.
- Spearheaded UI backend efforts to integrate diagnostics tooling into the UI platform, enabling faster and more efficient deployment site commissioning, utilizing scalable microservices architecture with gRPC as the communication protocol, and improving deployment process speed by 45%.
- Architected and implemented synchronization, coordination, and scheduling solutions for agents in the robotics system using Python, Async IO, and Adapters.

Product Marketer
Woopra, San Francisco CA   Apr 2017 - Jan 2020

- Led company's website redesign project, leveraging React and Keystone JS and collaborated with the engineering team on website's architecture and design, resulting in 2.5X increase of new signup conversion rate.

PROJECTS

Where is my BART? | *(React/Redux, React Leaflet, CSS3, Leaflet Geometry, React Select, Webpack)*   live | github
A dynamic web app to track BART train locations in real-time.

- Leveraged BART API, Redux Flux architecture and Leaflet geospatial library to dynamically fetch BART stations' departures every fifteen seconds and interpolate trains' positions on a map in real-time.

Yello! | *(Ruby on Rails, PostgreSQL, React, Redux, React-beautiful-dnd, Webpack, Heroku)*   live | github
A single-page application Trello clone for organizing and managing projects via customizable personal boards.

- Engineered smooth, intuitive UI with high usability by leveraging React components and React-beautiful-dnd library to allow users to create, update, drag and drop, comment and set deadlines for todo lists and cards.

Venture Money | *(JavaScript, D3, CSS3, Webpack, FS Node, JQuery, Webpack)*   live | github
An interactive data-visualization app to engage with venture funding data segmented by industry, rounds and years.

- Implemented D3 General Update Pattern (enter/update/exit) and D3 Data Joins to bind Crunchbase dataset to DOM elements and manipulate data input based on user interactions and dynamically-changing data attributes.

EDUCATION

Boston University - *B.S. Business Administration, double concentration in Finance and Accounting*
App Academy - *Full-stack Web Development: Rails, SQL, JS, React, TDD, algorithms, design patterns*