

Jimmy Pham

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[Portfolio Site](#)

[LinkedIn](#)

[Github](#)

SKILLS Javascript, C++, Ruby, Rails, React, Redux, PostgreSQL, MongoDB, Express, Node.js, SQL, HTML5, CSS3, Git

PROJECTS

SimpleStocks (Rails, PostgreSQL, Javascript, React/Redux, HTML5, CSS3)

[Live Site](#) | [Github](#)

Robinhood-inspired desktop/mobile app where users can practice buying and selling stocks.

- Employed PostgreSQL and Rails backend to fetch, calculate, and store user's portfolio value at any point in time.
- Integrated APIs to get real time stock info and news updates specific to companies.
- Implemented dynamic charts using React and Recharts to change date ranges depending on local state of chart component, allowing users to see value of stocks from past 5 years.

SafeWalk (MongoDB, Express, React, Redux, Node.js)

[Live Site](#) | [Github](#)

Mobile browser application designed to route users through most dangerous streets in San Francisco.

- Developed safety algorithm based on dijkstra's algorithm to give user safest possible walking route to destination.
- Employed Mapbox API to create custom navigation app that tracks user's current location, searches through streets, and details step by step directions to destination.
- Designed interactive heatmap using json layers that, upon click, details danger level of intersection.

Super Mario World JS (Javascript, HTML5, CSS3)

[Live Site](#) | [Github](#)

A level of Super Mario World created using Canvas and Vanilla Javascript.

- Incorporated model, view, and controller (MVC) architecture to organize code into game, user input, and display components.
- Implemented AABB tilemap collision to create smooth interactions between game objects and world.
- Developed JSON parser to make designing a Mario level easier based on tilemap grid coordinates.

EXPERIENCE

Simulation Design Operator

Ford Argo AI, Dearborn, MI

May 2018 - May 2019

- Tested Autonomous vehicles in simulated environments using proprietary modeling software, greatly improving the safety of automation and reducing manual takeovers by 80%.
- Lead daily triage meetings and collaborated with AI software engineering teams to identify critical failures in software to prevent live vehicle accidents.
- Quickly onboarded new engineers to company and co-managed a team of 11 simulation operators.

EDUCATION

App Academy - Immersive software development course with focus on full stack web development (2019)

University California @ San Diego - BS - Electrical Engineering (Spring 2017)