

Justin White

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Portfolio

OpenDoors (Rails, React/Redux, PostgreSQL) | [Live URL](#) • [GitHub](#)

A community based traveler hosting app, inspired by Couchsurfing

- Utilized Google's Maps and Geolocation APIs to display available hostings
- Implemented backend validations to ensure legitimacy of bookings
- Reduced server load time by storing image uploads in the cloud via AWS S3 and Paperclip

PourOverJS (MongoDB, Express.js, React/Redux, Node.js) | [Live URL](#) • [GitHub](#)

A browser based JavaScript profiler and code editor developed using Scrum methodology (Agile framework)

- Developed stack frame visualization to step through program execution
- Harnessed the JS library Esprima to dynamically inject code into an abstract syntax tree
- Determined code metrics such as variable scopes and the function chain

IPO Defender (JavaScript, HTML5, CSS3) | [Live URL](#) • [GitHub](#)

A remake of a classic arcade game using vanilla JavaScript

- Created intelligent AI using vector calculus, e.g., anticipating and evading bullets
- Wrote physics package with realistic controls such as acceleration and friction

Technologies

Ruby	JavaScript	React.js	PostgreSQL	Python	HTML
Rails	Node.js	SQL	MongoDB	CSS	Express.js

Skills

- Business proficient in Spanish: reading, writing, and speaking
- Fundamentals of engineering (EIT certified)

Experience

CRB Engineering: Kansas City, MO

05/2016 – 08/2016

Process Utility Engineer

- Built a marketing application to facilitate the identification of potential clients using Python, fuzzy logic, and the Bing API
- Calculated pipe and pump sizes to be used in the final designs of pharmaceutical bioreactors

Lawrence Livermore National Laboratory: Livermore, CA

05/2015 – 08/2015

Computational Physicist

- Conducted and investigated fluid dynamic simulations in the realm of fusion power to model turbulent mixing at the interface of two fluids
- Wrote Python scripts that performed post processing of large datasets and created initial conditions of computational simulations
- Published a paper in the field of Rayleigh Taylor instabilities

Education

App Academy: San Francisco, CA

05/2017 – 09/2017

- 1200-hour full-stack web development course with a <3% acceptance rate

University of Missouri-Columbia: Columbia, MO

08/2013 – 05/2017

- BS in Mechanical Engineering with 3.97 GPA
- Awarded most outstanding Junior out of 200 classmates

Colegio Eagle Hill School: Cucuta, Colombia

08/2012 – 07/2013

- Studied for one year with all classes taught in Spanish