Patrick Campbell

(415) 513-2412 patrick.evan.campbell@gmail.com Portfolio LinkedIn Github San Francisco, CA

Skills

JavaScript, React, Redux, Ruby, Ruby on Rails, HTML, CSS, Mongoose, MongoDB, Node.js, Express.js, AWS, WebSockets, SQL, SQLite3, PostgreSQL, Webpack, jQuery, SCSS, TDD, JUnit, RSpec, Capybara, Git, SVN, Heroku, OOP, DS&A, Java, C, C#, C++, Haskell, Arduino

Education

App Academy Summer 2021
Web development bootcamp with 1000-hour curriculum and < 3% acceptance rate.

University of Denver - Bachelor's of Science in Computer Science Spring 2021
Relevant Coursework: *Programming Languages, Operating Systems, Parallel and Distributed Programming, Introduction to AI, Database Organization, Software Engineering, Systems Programming, Computer Organization, C# and .NET, Computer Forensics*

Projects

Discord but Worse • *A clone of the browser version of Discord* Live Site | Github
Technologies - WebSockets, JavaScript, React / Redux, Ruby / Rails, D3.js, HTML, SCSS, PostgreSQL, AWS, Webpack

- Leveraged Rails Action Cable and Redis to manage web-sockets for opening new chats and messaging
- Implemented event listeners to improve user experience by letting them close popups in intuitive ways
- Incorporated refs with absolute positioning to create containers with both scroll and tooltips
- Employed numerous helper methods to deal with tough problems, such as displaying message dates properly

The Arena • *A cyberpunk themed, dungeon crawler browser game* Live Site | Github
Technologies - JavaScript (ES6), D3.js, HTML5, CSS3

- Harnessed request animation frame and two factors to allow the user to slow down time at the click of a button
- Contrived a pathfinding algorithm using a polytree and bfs to allow enemies to find their way to the player
- Constructed a dynamic collision system, with the ability to give the player an iframe during certain animations
- Fabricated a complex aggro system based on line of sight and distance to player for more seamless gameplay
- Planned a robust class inheritance system to enable easy implementation of future features

Sprout • *A web app that helps you take care of your plants* Live Site | Github
Technologies - JavaScript (ES6), React / Redux, D3.js, HTML5, CSS3, Mongoose, MongoDB, Node.js, Express.js, AWS

- Stored uploaded images on Amazon Web Services S3 (AWS) to allow users to upload images for new plants
- Fashioned a system to compare and update dates to notify the user when their plants need to be watered
- Built modals for CRUD actions with plants and garden plants for a compelling and natural layout

Experience

University of Denver
Software Engineer August 2016 - January 2017

- Polled professors school-wide for desired additional features and worked with school to gain security keys
- Interfaced with the Canvas API to add functionality to University of Denver's school-wide canvas website
- Collaborated with 5 team members using SVN to allow for efficient development