Patrick Campbell

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Education

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

University of Denver   Spring 2017
Bachelor's of Science in Computer Science

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

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
- Employed numerous helper methods to deal with tough problems, such as displaying message dates properly
- Incorporated polymorphic associations with messages in text channels and direct messages for DRY code

The Arena • *A cyberpunk themed, dungeon crawling 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
- Constructed a dynamic collision system, with the ability to give the player an iframe during certain animations
- Planned a robust class inheritance system to enable easy implementation of future features
- Contrived an algorithm that randomly builds each room to provide variety, thus enhancing user experience
- Fabricated an aggro range system as well as a mob tag response system for more seamless gameplay

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 Website

- 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