Steven Lum

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SKILLS

Ruby, Ruby on Rails, JavaScript, jQuery, React.js, Redux, SQL, Git, HTML5, CSS3, Java, C++, C#

EDUCATION

App Academy - Immersive software development course with focus on full stack web development (Summer 2018)

San Francisco State University - *BS - Computer Science, GPA: 3.81*   (Spring 2017)

Specialized Coursework: Data Structures, Discrete Mathematics, Machine Structures, Programming Methodology, Operating Systems, Analysis of Algorithms, Theory of Computing, Multiplayer Game Development

PROJECTS

Disgo (React.js, Redux, Ruby, Rails, Postgres**)**   Live Site | Github
A single page interactive chat application inspired by Discord

- Created live chat feature using Rails ActionCable (WebSockets) to provide immediate feedback to subscribed users via messages and online status
- Integrated Rails ActiveStorage with Amazon S3 to host and serve user-uploaded content
- Implemented user authentication using BCrypt, allowing for private chatrooms and redirection based on custom authentication requirements
- Used Regex to parse user messages to automatically create clickable links and embedded images and videos if the message contained keywords, allowing easy access to user content

Viral Canvas (JavaScript, Webpack, Paper.js)   Live Site | Github
A sandbox simulation of how quickly an infection spreads

- Optimized performance by refactoring the distance calculation and adding a grid system using a hash of arrays to store particles at each grid coordinate and checking surrounding cells only
- Created custom settings feature and a stats display to provide user interaction and feedback
- Implemented custom checks to prevent users from inputting invalid values

Watchie (MongoDB, Express, React, Node.js)   Work-in-Progress | Github
A time management application with mobile-first design

- Created a responsive design using a combination of MaterialUI and CSS media query breakpoints to provide a smooth, user-friendly interface on devices of varying size
- Implemented push notifications using Push, Notifications, and Service Worker APIs, providing user interactivity while the app is not currently open and preserving battery life

EXPERIENCE

Public Service Aide
San Francisco Public Utilities Commission, June 2017 - June 2018

- Managed school lead testing information spreadsheet consisting of data from 200+ Bay Area schools, updating daily and providing bi-weekly reports to be used in press conferences and internal meetings
- Authored detailed user experience enhancement and bug reports to developing applications, allowing for seamless, bug-free releases

Teaching Assistant - Software Development
San Francisco State University, Feb 2016 - May 2017

- Coached 100+ students in Ruby, Prolog, and Scheme in-person and online to accelerate their learning growth and proficiency
- Graded homework and exams and uploaded scores to SFSU website on a strict time deadline
- Administered exams during professor's absence