Derek Shue

(908) 809-3240   dshue@berkeley.edu   LinkedIn   Github   Portfolio   San Francisco / Bay Area

Skills
ES6 JavaScript, React.js, Redux.js, Ruby, Ruby on Rails, RSpec, Selenium, MongoDB, Express, Node.js, Python, SQL, Git, HTML5, CSS3, PostgreSQL, jQuery, JSON, GraphQL, Apollo, Docker, AWS S3

Experience

App Academy
Online Instructional Assistant   September 2020 - Present
- Teach students wide range of CS topics, including Python, Javascript, React, and Data Structures/Algorithms
- Develop CS projects and test specs used to aid with student learning
- Continuously modify curriculum to stay up-to-date with current trends in popular technologies, frameworks, and best practices

Property Matrix
Software Developer   June 2020 - August 2020
- Implemented user-requested features and functionality, such as updating the ROR backend to automate email notifications when a tenant invoice is missing and adding React.js components to allow user-created custom fields when sending a form to tenants
- Debugged and fixed user-reported issues, including ROR error handling, HTML/CSS styling, and AJAX form submission
- Wrote tests using Rspec and Selenium and updated the automated test suite to ensure software feature functionality

Lawrence Berkeley National Laboratory
Research Assistant   Summer 2018
- Investigated the limb-specific enhancer ZRS at Sonic hedgehog (Shh) gene in snakes through researching phenotypic robustness and ultraconserved enhancers
- Gathered DNA samples from 10-12 mice per week through euthanization and clipping
- Updated and organized transgenic mice data via Google Sheets

Education

University of California, Berkeley   August 2016 - May 2019
Bachelor's in Cognitive Science - GPA: 3.7
Relevant Coursework: The Structure and Interpretation of Computer Programs, Computational Models of Cognition

App Academy   September 2019 - February 2020
Immersive software development course with focus on full stack web development

Projects

Fakebook (JavaScript, React / Redux, Ruby / Rails, HTML5, CSS3, PostgreSQL)   Live Site | Github
Facebook clone
- Utilized polymorphic associations to reduce database calls and allow for a lighter weight, scalable application
- Implemented eager loading to eliminate "N+1" queries and drastically improve loading times
- Leveraged Redux single-state management to streamline communication between backend and frontend architecture
- Incorporated stylistic features of Facebook using HTML / CSS, including color schemes, navbar layout, and button and text element styles

Pokemon Battle Simulator (JavaScript, HTML5 Canvas)   Live Site | Github
Two-player turn-based Pokemon battle game and single-page application
- Implemented movement animation using requestAnimationFrame to make the Pokemon come alive and create a more engaging game
- Integrated health, damage, and statistic calculations from the current Pokemon games through state changes that rely on Object-Oriented Programming techniques and conditional logic
- Incorporated continuous animation playback loop within framework of turn-based, state-shaped conditional logic