

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, GraphQL, Apollo, Docker, AWS S3

Experience

Property Matrix

Software Developer

June 2020 - Present

- 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

Tufts Medical Center

Research Assistant

Summer 2015, 2016

- Conducted study to investigate correlative links between JAX mouse genes and Alzheimer's Precursor Protein (APP)
- Evaluated the effects of Drosophila melanogaster genes on the production of EAAT1, which is correlated with ALS
- Mentored student in standard laboratory procedures
- Analyzed laboratory data through qPCR readouts

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