

Derek Shue

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

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

Education

App Academy

Immersive software development course with focus on full stack web development

September 2019 - February 2020

University of California, Berkeley

Bachelor's in Cognitive Science

GPA: 3.7

August 2016 - May 2019

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 (in Progress) (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

MusicBox (JavaScript, GraphQL, React.js, Apollo, Node.js, MongoDB, AWS, Docker, HTML5, CSS)

[Live Site](#) | [Github](#)

Amazon-themed music store

- Created custom mutation and query components to follow Object-Oriented Programming design and create and load object elements
- Harnessed MongoDB to handle large quantities of data and make the application scalable
- Implemented product upload from frontend to backend to store large picture files in AWS S3 bucket
- Utilized Git workflow in a team setting to cooperate efficiently and review team members' code

Experience

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 mice 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