

# Elizabeth Dang,

a Software Engineer

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## SKILLS

JavaScript. Ruby. Ruby on Rails. React. Redux. Node. JQuery. PostgreSQL. MongoDB. GraphQL. SQL. RSpec. HTML. CSS3. Git.

## PROJECTS

### SoundPoof — [LIVE](#) | [GITHUB](#)

A single-page clone of SoundCloud where users can sign up to view, search, comment and stream music.

- ❖ Tech: Rails, PostgreSQL, ReactJS, Redux, Webpack, AWS, Heroku.
- ❖ Integrated ReactPlayer with the Redux Cycle to build a top-level music player that dynamically synced with playPause buttons to maintain a singular state of active music, ensuring uninterrupted and non-overlapping music streaming during navigation.
- ❖ Built system for users to like/repost/follow by utilizing a one-to-many Polymorphic Association table to establish relationships
- ❖ Utilized Rail's Active Records transactions to protect the integrity of the database, and efficient querying to prevent n+1 queries for highly relational data.
- ❖ Ensured user privacy and autonomy through frontend and backend authentication measures, allowing users to only access and delete their own tracks and comments, as well as control their likes, reposts and follows.
- ❖ Minimized backend routes and achieved dry code by designing custom search functionality to filter user and track results from multiple data-types across slices of state
- ❖ Utilized the Rails active storage and AWS S3 to encrypt audio and image storage which reduced server load, optimized data fetches, and allowed the app to scale gracefully

### NookBnb — [LIVE](#) | [GITHUB](#)

Full stack single-page AirBnB clone where users can sign up, view spots, create bookings, and search for spots on a map.

- ❖ Tech: ReactJS, GraphQL, Mongoose, MongoDB, AWS, Heroku.
- ❖ Built custom user authentication pattern that uses jsonwebtoken, bcrypt, and custom validations on the backend, as well as localStorage and the Redux store on the frontend to create secure sign up, login, and logout functionality.
- ❖ Enabled interactive maps by using Google Maps API to filter and display rental spot search results by location.
- ❖ Utilized Mongoose ORM to map results of database queries onto JavaScript objects which follows MVC best practices.

### Quarrel — [LIVE](#) | [GITHUB](#)

A Quora inspired question and answer web application for heated discussions.

- ❖ Tech: ReactJS, GraphQL, Mongoose, MongoDB, AWS, Heroku.
- ❖ Created custom modal framework using React component architecture allowing for efficient development of new forms.
- ❖ Crafted model level validations for login and signup using the Validator.js library, ensuring that users are secure
- ❖ Optimized data fetching load times by implementing an Apollo / GraphQL layer to simplify the fetching of complex data
- ❖ Leveraged GraphQL and custom mongoDB query functions to fetch highly relational data between questions, answers and comments, thereby eliminating expensive, repetitive queries.

## EXPERIENCE

### Tu Law Firm, Fountain Valley, CA — *Paralegal / Legal Assistant*

MAY 2016 - OCT 2019

- ❖ Managed and regulated the firm's case management database (AbacusLaw) by ensuring accurate and thorough data entry/categorization, thereby maximizing search efficiencies when cross-referencing cases, people, and documents. Improved load time for case retrieval, by reconfiguring the front-end to stagger data fetches only if needed immediately; and prioritized data that was most accessed and workflow loading experience of front-end pages by categorizing staggering data fetches in allowed for better visualization and analysis of the data.

### Psychological and Brain Sciences of UCSB, Santa Barbara, CA — *Research Lab Assistant*

AUG 2013 - MAY 2014

- ❖ Oversaw a Cultural Psychology experiment lab that utilized Scratch programming language to study the effects of racial primes on students' performances. Facilitated experiment by preparing visual stimuli slideshow. Scratch code software program, coded results from experiments and maintained correct data entry to provide detailed summaries and analysis to the final project thesis.

## EDUCATION

### App Academy, San Francisco, CA — *Web Development Bootcamp*

October 2019 - April 2020

### University of California Santa Barbara, Santa Barbara, CA — *B.A. in Psychology*

August 2011 - May 2015