LUCAS AMARAL

SOFTWARE ENGINEER

INFO

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EDUCATION

Duke University *Durham, 2016*
B.S. in Economics & Finance
GPA: 3.6

App Academy *San Francisco, 2017*
Rigorous 1000+ hour full-stack coding bootcamp that accepts < 3% of all applicants

SKILLS

- JavaScript, JQuery
- React, React Native
- Redux
- Ruby, Rails
- SQL, NoSQL
- HTML, CSS

PROJECTS

BetterPlaylists - Live | Github
Full stack music-sharing website built with Ruby on Rails on the backend, a PostgreSQL database, and React.js with a Redux architectural framework on the frontend.

- Secured user account creation and authentication for login and signup based on BCrypt encryption
- Developed Rails database model associations to give users the ability to create, share, and follow/unfollow playlists, using React to render real-time client side updates
- Implemented custom-built React playbar component integrated with AWS-hosted music files for continuous, site-wide music playback

Playtime App - Live | Github
Mobile app that facilitates coordination of dog play dates, and finding nearby dog parks. Built with React Native and Expo in the frontend, a Firebase (NoSQL) database in the backend, and a Ruby on Rails server for push notifications.

- Implemented Facebook and Gmail login and signup authentication
- Used Google Maps API and geolocation to locate and display nearby parks
- Developed system for push notifications to alert users when they receive follow requests and other updates using a Rails server
- Integrated AWS image-hosting to allow user-uploaded profile pictures of their dogs

Colors - Live | Github
Brower puzzle game built entirely with JavaScript, HTML, and CSS.

- Implemented responsive design that works on screens of any size by rendering puzzle squares as a function of screen height and difficulty level
- Developed core functionality based on recursive calls and memoization to speed up runtime

WORK EXPERIENCE

Associate at Expanding Capital, Venture Capital Firm
San Francisco, May 2016 – Mar 2017

- Created a Python web-crawler to aggregate information on startup funding rounds, and used Excel and statistical methodology to find quantitative indicators of startup investment attractiveness based on previous funding activity
- Prospected and wrote research briefs for potential investments, ultimately producing a list of 60+ “wish-list” companies the firm’s partners pursued, resulting in two $1MM investments
- Designed the official company website using HTML and CSS