

LUCAS AMARAL

SOFTWARE ENGINEER

INFO

**Address**

680 Mission St. Apt 16 S
San Francisco, 94105

**Phone**

919 599 3881

**Email**

lucas.v.amaral@gmail.com

**Website**

lucasvamaral.com

**Github**

github.com/lvamaral

**LinkedIn**

linkedin.com/in/lucasvamaral/

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
- Node, Express
- React, React Native
- Ruby, Rails
- Redux
- SQL, NoSQL
- HTML, CSS
- Portuguese, Spanish

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

King of the Hill - [Live](#) | [Github](#)

Online, synchronous multiplayer battle game. Built purely with Javascript, using Phaser.js for HTML Canvas rendering on the frontend, a Node server with Express.js, and Sockets.io for client-server communications.

- Developed real-time multiplayer from scratch by creating a bi-directional data flow between clients, sockets, and the server
- Handled player input through JS browser events, and game rendering using Phaser.js for map and character animations
- Kept game synchronized by referencing and updating a server's authoritative game state on player login/logout, movement, rotation, and attack through socket events

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