Abraham Fong

#: 510-280-4375 **e:** me@abrahamfong.com San Francisco, CA Portfolio Linkedin GitHub

Skills

React, Redux, JavaScript, HTML5, CSS3, Ruby, Ruby on Rails, jQuery, noSQL, SQL, SQLite3, PostgreSQL, Heroku, Webpack, Node, Express, Git, Bootstrap, C/C++, Java, Mongoose, MongoDB

Education

App Academy | Fall 2021 | San Francisco, CA | Immersive software development course

University | Spring 2020 | Santa Cruz, CA | UC Santa Cruz, **B.S. in Computer Science**
Courses | Abstract Data Types, Accelerated Introduction to Computer Science, Advanced Programming in C++, Algorithm Analysis, Comparative Programming Languages, Computational Models, Computer Architecture, Computer Systems and Assembly Language, Computer Systems in C, Data Structures, Fundamentals of Compiler Design I, Mobile Applications, Networking, Operating Systems, Precalculus, Probability and Statistics, Software Engineering I, Vector Calculus, Web Applications

Projects

Code-Op • JavaScript, Node, Express, React, Redux, Mongoose, MongoDB, CSS3, Heroku live site | github

A project management and sharing platform where users can look for team members or ideas to join

- Provided a backend code base that accelerated the startup process, allowing production-ready code to be built within 4 days
- Implemented route protection and resource filtration resulting in extendable protection of resources and access/filtration of data
- Designed an error system using toasts in the frontend and a centralized point of error handling in the backend that greatly improved the user's experience by providing styled, guiding error messages

Paimo • JavaScript , React, Redux , Ruby on Rails , postgreSQL , CSS3 , Heroku , Webpack live site | github

A clone of the popular transaction service, Venmo

- Ensured pixel perfect UI through careful inspection of Venmo desktop webpages
- Diligently constructed a DRY, moldable system architecture — maximized code reuse
- Delivered a minimum viable product using RoR, SQL, and React that successfully mimics its parent app

Dino Bets • Vanilla JavaScript, Webpack, Canvas WebAPI, CSS3 , HTML live site | github

Dino Bets is an implementation of a tradition established by App Academy cohort 2021-08-30-SF in which people would guess on what dinosaur or in what sequence the dinosaurs would win in a Dino Timer race

- Constructed a class based design for Canvas animations in which the concern over frame management and object movement were separated, leading to low-effort animation control
- Combined previously mentioned design with recursion, setTimeout, and a randomly generated time interval between 1 and 5 seconds to animate character running movement — provided dinosaur races with randomized results
- Employed a frame rate throttling algorithm, resulting in consistent animation rates across devices

Skribble Custom Words • Vanilla JavaScript, CSS3 , HTML, Node, Express, Pug live site | github

A group word sharing platform meant to be used in conjunction with private skribbl.io games

- Protected network and user data through administration of application security -- minimized data breach attack vectors and ensured stability of the application network
- Delivered word sharing platform that streamlines customization of private game lobbies — enhanced user experience on parent app

Experience

Modified Supplemental Instruction (MSI) Tutor | UC Santa Cruz | September 2016 - June 2017

- Supported 30+ students through collaborative activities and interactive environments — successfully scaffolded firm foundation in Java and data structure basics that enhanced performance in future courses
- Went above and beyond my scheduled time by 7+ hours per session to ensure students' success — saw 100% passing rate with all grades in range B- to A+
- Fulfilled required tutoring qualifications for MSI position — acquired in-depth knowledge of teaching techniques