ANNIE GIANG

415-637-0809 annieg4123@gmail.com Linkedin Github Portfolio San Francisco / Bay Area

SKILLS

JavaScript, MongoDB, Express, React, Redux, Node, Ruby, Rails, jQuery PostgreSQL, HTML5, CSS3, Git

PROJECTS

iFluent (iTalki Clone) Live Site | Github

Fullstack clone of iTalki, a language learning platform, using React, Redux, Ruby on Rails, and Postgresql, incorporating a MVC design and RESTful routing architecture.

- Leveraged the React-Alice-Carouse library to build a photo gallery that allows users to click through slides using navigation buttons
- Improved state organization by storing various data types such as users, teachers, and languages by their ID's as keys and data objects as values, thereby normalizing Redux state shape and improving rendering performance for React components.
- Implemented secure user authentication by storing hashed passwords generated using Bcrypt and storing session tokens using Rail's Session to maintain user-specific state and to correctly identify users upon HTTP requests.

Piano Tiles Live Site | Github

Single-player game containing two modes where the goal is to tap tiles quickly while avoiding non-target tiles, built using Vanilla JavaScript, HTML5 Canvas, and OOP design principles.

- Designed dynamic play by incorporating keypress and mouse click functionality using the event Window API to detect keypress codes and mouse offset positions to calculate the vertical and horizontal boundaries of valid target taps.
- Utilized Canvas's request animation frame to animate the movement of tiles to move by an amount of the tile's height, while adding new rows of tiles at the top of the canvas as succeeding rows animated out of the canvas frame.
- Incorporated accurate countdown timers using the Date Object to calculate the delta time between animation frames, allowing stable frame-rates by compensating for time taken by computations.
- Incorporated two modes of game play by designing modular methods that executed the appropriate game logic given a mode, alongside maintaining code to be DRY.

Mood Booster (team project) Live Site | Github

A MERN application (MongoDB, Express, React, and Node) that promotes mental care to boost productivity for software engineers.

- Built dynamic API methods that handle CRUD commenting functionality for three different content types (photos, videos, and quotes) by storing content-identifying information in the request body and query parameters for every Axios request.
- Implemented favoriting functionality by referencing content ID's and storing them in the User's model, creating dynamic protected RESTful routes that executes the storage of content ID's to the respective content type.
- Secured API routes by storing signed JSON Web Tokens in the client's request headers upon successful login/sign up and utilizing the Passport-JWT Strategy to authenticate tokens to allow users access to protected routes.

EXPERIENCE

Outreach and Recruitment Manager

Breakthrough San Francisco, Apprenticeship, Sept 2018 - June 2019

- Utilized Wordpress's Divi plugin to completely redesign Breakthrough's website for friendlier usability, launching new brand identity and incorporating new colors and logo. (www.breakthroughsf.org)
- Excelled in building relationships with families, volunteers, and teachers at 43 elementary schools to support full-day interviews and application reading events, successfully recruiting 36 historically underserved students to join Breakthrough's free 8-year program to become first-generation college students.
- Maintained normal after-school programming during periods of low volunteer attendance by taking the initiative to tutor elementary and middle school students on their homework.

EDUCATION

App Academy - Rigorous 1000-hour software development course with <3% acceptance rate (2019)

University of California, Berkeley - *BA - Cognitive Science* (2014-2018)

- **Coursework:** Computational Models of Cognition, Structure and Interpretation of Computer Programs, Cognitive Neuroscience, Discrete Math, Symbolic Logic
- **Awards:** Cal Opportunity Scholarship (2014) **-** A prestigious UC Berkeley full-ride scholarship that provides financial and academic support for students who excel in academics, community involvement, and personal development.