

Luke Chang

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SUMMARY

- Experienced software engineer with strong attention to detail and initiative in team environments.
- Strong ability to collaborate with cross-functional teams and communicate effectively with stakeholders to understand their needs and provide custom solutions.
- Strives to develop interactive and user-friendly web applications using React and other frontend technologies.
- Adept in utilizing cloud technologies such as Firebase to support real-time data storage and retrieval.

SKILLS

Javascript, HTML, CSS, jQuery, MERN, Styled Components, Firebase, Git, TDD, UX/UI Design, SEO-Optimization

EXPERIENCE

USIC - Freelance Frontend Developer

Los Angeles, CA 2021 - 2022

Usic is a web application for finding unsigned artists and their music based on where their music is successful. Users search for artists by different categories such as demographic, location, and genre. Building this project required a working knowledge of React Hooks, Redux, js-cookie, and Figma.

- Crafted 15+ pixel perfect UI components from Figma mock-ups using React Hooks, HTML, CSS and Styled Components.
- Initiated and responsible for Project Rehaul which involved reviewing 17 components to replace CSS stylesheets with Styled Components, eliminating class name duplications, overlaps and bugs.
- Implemented 9+ components accomplishing core UI functionality such as artist filter, genre carousel, feedback form, breadcrumbs menu, track modal and search results page pagination.

Sushi Gallery Restaurant (sushi-gallery.firebaseio.com/menu)

Los Angeles, CA 2020 - 2023

Developed and maintained Sushi Gallery restaurant website to improve online presence, sales, and menu updates. Worked with restaurant owners and engineers for custom solutions and improved functionality. Managed site maintenance, including replacing discontinued libraries, fixing broken images, and implementing owner requests.

- Used CSV parsers to connect Google Sheets and React front-end for a custom solution for non-technical restaurant owners
- Managed software maintenance including replacing discontinued CSV parser, improving site score from 54 to 95 in a Lighthouse Audit, and general upkeep such as upgrading assets.
- Created 14 React class based components, to build a responsive and mobile interactive site that allows customers to view, filter menu and place orders online.

PROJECTS

LAFPC Hackathon (github.com/moonjason/LAFPC-Hackathon)

Los Angeles, CA 2020

Placed 2nd in LA Food Policy Council hackathon with a team of software engineers, designers, and data scientists, enhancing the website with interactive charts visualizing income, ethnicity, and diet relationship.

- Integrated React components, React router, and ApexCharts.js to retrieve and display data from backend to build the Affordability page, which is designed to help users observe the correlation between the income level and food related-diseases.
- Developed three components to enable filtering of bar chart graph based on user selections, empowering users to analyze complex health data.

Drawing Game (github.com/lukechang24/Accurate-or-Nah)

Los Angeles, CA 2020

Online multiplayer app that tests user's drawing and analyzing abilities. Players are given a limited amount of time to input nouns, verbs, and adjectives to generate randomized prompts, draw their selected prompt, and guess the other player's prompts. Players have the ability to chat with other participants via chatbox, which notifies users when a player has joined or left the room.

- Developed over 25 React class components for game logic, including creating/joining rooms, generating unique drawing prompts, and awarding points based on guess accuracy.
- Implemented Firebase real-time database for core game functionality, including user authentication and data storage (users, chats, rooms, canvases, status) to ensure a smooth multiplayer experience.
- Developed 5 Firebase cloud functions for database maintenance, including sanitization, updating user status, deleting canvases/rooms, and managing chat records.

EDUCATION

Software Engineering Immersive, General Assembly

Los Angeles, CA 2019

Learned industry best practices and practical software development standards with a focus on HTML5, CSS3, MERN stack, jQuery, and algorithms and data structures. Created and deployed full-stack web applications while learning new languages and frameworks by collaborating 40+ hours a week with senior software engineers.