

Justin Chang

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Education

UC Santa Barbara

BS, Computer Science

08/2020 – 06/2024

Santa Barbara, California

Relevant Coursework

Single Variable Calculus

Multivariable Calculus

Linear Algebra

Statistics and Probability

Java Programming

C++ Programming

Computer Architecture

Links

github.com/just-in-chang

justinchang.xyz

linkedin.com/in/just-in-chang

Skills

Languages

JavaScript, Java, Python, C++,

Elixir

Libraries

React.js, Express.js, Django Rest

Framework, Phoenix

Miscellaneous

Git, Unix

Others

Chinese (Mandarin)

Task Dedication

Project Management

Adaptability

Leadership

Eagle Scout

Varsity Swim Team Captain

Water Polo Team Captain

Experience

Ortexo

Software Engineer | July 2020 – September 2020

- Worked with a **scrum** team in biweekly sprints to develop company products, the company blog, and the company website
- Developed endpoints for the **REST API** that handled user profile data in **Express.js** for NPO Core, a platform to help the growth of nonprofits
- Interfaced with **MongoDB** through the **Mongoose ODM** to store organization posts and user session data for NPO Core
- Designed **React.js** components to load and display hundreds of organizations and posts

SUSTaiN

Front-end Web Development Intern | March 2019 – July 2019

- Utilized **React.js** and **Bootstrap** to develop the front-end of a website
- Created reusable and responsive React components
- Deployed website to GitHub Pages

Projects

Jelli | *September 2020*

- A **full-stack** web application to help users manage projects and tasks through a card-based organization system
- Created a normalized data model in **Django Rest API** that used **PostgreSQL**
- Performed **unit tests** using the **Django Test-Execution Framework**
- Utilized **Cypress** to perform **End to End** tests for the **React.js** components

Pathfinder | *June 2020*

- A widget that generates and solves mazes
- Implemented **Kruskal's algorithm** to randomly generate a maze
- Used **Dijkstra's Algorithm** and **A* Search Algorithm** to efficiently determine the shortest path through the maze
- Added animated GUI to portfolio website using **React.js** and **HTML5 Canvas** to display the maze and the traversed path

Akira Bot | *August 2019*

- Profile analysis tool made in Discord.js framework
- Utilized **Google Drive** and **Google Sheets API** to manage the point system for a 100+ player game organized by Lynbrook High School
- Included features to calculate leaderboards, add/remove from a player's point balance, create new players, and disqualify players

Cookie IDE | *April 2019*

- A **JavaFX** drag and drop development environment for JavaFX GUI components and applications
- Implemented socket programming over **TCP** to save and retrieve files