Colin Zhou

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Education

Candidate for **B.A., Computer Science**

UC Berkeley, Expected May 2021

Relevant Coursework

The Structure and Interpretation of Computer Programs • Data Structures • Discrete Mathematics and Probability Theory • Great Ideas in Computer Architecture

Technical

Programming

React • React Native • Java • Kotlin • Javascript • Swift • Python • Firebase • Flask • HTML • CSS • SQL

Tools

Docker • Git • Google Cloud API • Dash • Plotly • Scrum Agile • Heroku • CircleCI • Keras API

Experience

Crowdbotics Software Engineer Intern June 2019 - August 2019

- Used **React Native**, **Javascript** and **CSS** to develop blueprints with React Cookiecutter of common web app features such as messaging (customers could add a chat system in their app). Full list can be found on my website.
- Implemented a blueprint that allowed customers to add map navigation through **Google Maps** and travel to destinations.
- Increased installation speeds by **12%** by fixing bugs in the web app using a **Heroku Prototype** of the **Docker Server Env**.
- Fixed a runtime issue with Crowdbotic's **Django** app blueprint using **CircleCI's Local CLI** which increased rendering speeds by **35%** for all app deployments.
- Worked closely with the team in early product phases to facilitate **agile** development methodology.
- Designed, developed, and tested new features for React project releases to be used by over **20 customer teams**.

Upsync Berkeley Tech Project Lead September 2018 - Present

- Led a team of 5 college consultants to develop the iOS app for Cambi, a merchandise app that grants users loyalty points from online purchases in local stores in San Francisco. Increased consumer traffic by **19%**.
- Led training workshops in **React**, **Swift** and **CSS** for team and organization members.

Better Sports Corporation Tech Project Lead August 2019 - December 2019

- Led a team of 6 college consultants in working with **React** development team and developed company's website using **HTML**, **CSS** and **Javascript**. Fixed 3 deployment bugs which increased app runtime by **12%** and allowed for first beta release on schedule.
- Used **React** to design and test the frontend skeleton; helped plan and connect the **GraphQL** backend.

Projects

ML Algorithm Visualizer **@github.com/ZhouColin/ml-visualizer** (TreeHacks 2020 Winner)

- Made a machine learning visualization learning tool using the **Dash** interactive Python framework developed by **Plotly**. Implemented the **React** frontend with **HTML** and **CSS** and helped develop the Python backend to add support for various ML algorithms.

BlueBook **@github.com/ZhouColin/BlueBook**

- Developed a **React Native** app that combines 11 blueprinted features for efficient app creation such as Google Maps, Camera, Login, Firebase and more. Developed using **Javascript**, **React Native**, **Swift** and **Kotlin**.

pHeed **@github.com/ZhouColin/pHeed** (nwHacks 2020 Finalist)

- Created a **React Native** app that 'detoxifies' one's Twitter feed by analyzing all Twitter accounts a user follows and scans for negative tone and language using **Google API** for sentiment analysis. Developed the **React Native** frontend and **Kotlin** backend.

Project SID **@github.com/jackyzha0/pennappsxx** (PennApps 2019 Finalist)

- Made an autonomous **Tello** drone swarm that uses **Keras API** to detect marine debris. Implemented the **React** frontend using **Javascript**, **HTML** and **CSS**, **Google Cloud API** for image storage, and developed the **Python Flask** backend using a **SQL** database.

InDemand Parking **@github.com/ZhouColin/indemand-parking** (CalHacks 2020 Finalist)

- **React** app that offers an Airbnb style service for street parking. Developed the backend user **SQL** database and requests using **Java**. Used **Python** and **Flask** for data analysis. Used **React** to connect to the ML microservice.