

ANDY CAI

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EDUCATION

University of California, Los Angeles

Sept. 2018 to Current

B.S. Computer Science 2022

Relevant Coursework: Programming Languages, Software Construction Laboratory, Data Structures and Algorithms, Computer Architecture, Operating Systems, Discrete Mathematics

Activities: City Fellows Consortium: Los Angeles, Sigma Eta Pi Premier Co-ed Entrepreneurship Fraternity, DevX, Creative Labs, 180 Degrees Consulting

EMPLOYMENT

Facebook

Incoming Fall Software Engineering Intern

Sept. 2021 to Dec. 2021

Dropbox

Incoming Software Engineering Intern

June 2021 to Sept. 2021

The Routing Company

Software Engineering Intern

Cambridge, MA

Aug. 2020 to Current

- Developing microservices using Golang, GraphQL, and InfluxDB for Routable AI's route optimization API.
- Added request retrieval microservice to retrieve all ride requests a specific rider sends to the backend.
- Developed rider mobile application for public transit passengers using Flutter, GraphQL, and various other technologies.

Center for Vision, Cognition, Learning, and Autonomy

Research Assistant

Los Angeles, CA

Apr. 2020 to Current

- Research in Reinforcement Learning for path planning for self-driving vehicles under simulated environments.
- Simulate and improve behaviors of reinforcement learning agents in unknown environments with PyTorch.
- Contributed to an open-source vehicle simulation and data collection tool in C++ under video game environment.

Blok Party Inc.

Android Development Intern

South San Francisco, CA

June 2019 to Sept. 2019

- Designed and updated the user dashboard and marketplace on PlayTable's gaming console to a more modern UI in Android Studio with Java and XML.
- Created Profile caching mechanism to store user's profile information locally and fetches new profile information every 24 hours.
- Integrated Stripe's Android payment SDK to implement a payment flow that enables users to purchase games and a SetupWizard that guides users through the device setup process.

UCLA DevX

Frontend Lead

Los Angeles, CA

Apr. 2019 to Aug. 2019

- Led the iOS development of Pulp, an experience recommendation app for college students with Facebook SDK and 4Square API.
- Ideated and implemented a social feature that allowed users to share their favorite campus hot spots with friends.
- Performed A/B testing on the new feature with 30 subjects. App nominated as "Best student Experience App" by sponsor TripAdvisor on demo day.

PROJECTS

Reinforcement Learning Algorithms in Windy Gridworld

July 2020 to Current

Developed 5 different RL algorithms (Monte Carlo, SARSA-1, SARSA-n, Q-learning, N-step Q-learning) from scratch using the OpenAI windy gridworld environment.

SF Bay Area Loan Website

Dec. 2019 to Jan. 2019

- Developed website for a Bay Area loan manager to automate customer information collection.
- React.js + Flask to develop a modern UI and backend that processes and sends the information of customers to our client, a loan manager. Deployed app on Heroku.

Simpy

Jan. 2020 to Current

- Simpy provides a deeper insight to how Spotify users music taste overlap with their friends as well as a way for users to meet strangers that share similar music taste.
- Developed using React.js + Express.js using MongoDB and Spotify Web API

SKILLS &

INTERESTS

LANGUAGES: Python, Javascript, Golang, Java, C++, Bash, Swift

FRAMEWORKS & TOOLS: Git, Node.js, React.js, Express.js, Native Android/iOS Development, GraphQL, Flask, Kubernetes, Docker

INTERESTS: Weightlifting, Basketball, Reading Memoirs, Lyrical Rap, Cooking Steak