ANDREW HO

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EDUCATION

University of California, Irvine   Exp. Grad June 2024
B.S. Computer Science

<u>Coursework</u> : Data Structures and Algorithms, Machine Learning, Software Engineering, Networks, Architecture

EXPERIENCE

Suma Wealth | Backend   **Incoming Oct. 2022**
Incoming Software Engineer Intern   *Santa Monica, CA*
- Constructing backend for Sumaversity financial platform.

Snap Inc. | Full Stack & Leadership   **Jun. 2022 – Aug. 2022**
Snap Engineering Academy Scholar   *Santa Monica, CA*
- Developed Snapchat Mini feature addressing food-security using **React-Native, Firebase, Firestore, and Auth**
- Integrated scan functionality allowing users to scan unfamiliar ingredients for related recipes, tutorials, snack facts, and Apple Maps API to find affordable ingreidents in user's proximity.
- Collaborated in cross-functional environment including UI/UX design and marketing teams in partnership with the non-profit, ***Our Own***.
- Participated in 30+ fireside chats, a one-on-one mentorship program, and weekly technical interview workshops.

Love Yourself | Full Stack   **Aug. 2020 – Jan. 2021**
Lead Web Developer   *Irvine, CA*
- Developed web store as lead developer using HTML, CSS, and JS for local clothing startup brand leading to **50%** increase in sales
- Integrated **Stripe Payments API** to handle customer payments

PROJECTS

Watchlist - Full Stack Movie Recommender Web App | *Flask, React, PostgreSQL, Chakra UI, pandas, Ubuntu*
- Constructed Flask REST API which uses machine learning model to provide movie recommendations to React frontend.
- Created collaborative filtering ML model trained with MovieLens dataset with over **2.5 million** ratings and TMDB API, using cosine similarity methods.
- Implemented custom Authentication system using Bearer token authentication.

Unicart - Budgeting Web App | *Flask, Python, JavaScript, PostgreSQL, Bootstrap, Ubuntu*
- Users can manage and share product wishlists of products across multiple websites
- Built web scraping API to retrieve image metadata for client rendering
- Hosted on remote Ubuntu Server using Linode.

MySteamStats | *Flask, React, Material UI, Heroku, Steam Web API*
- Developed web app client to display any user's Steam play time analytics.
- Deployed Flask server utilizing Steam Web API to handle client log-in requests and fetch owned game playtime.

Simdemic - Pandemic Simulator | *JavaScript, HTML, CSS*
- Developed pandemic simulation service web app which models virus spread based on an actor model.
- Designed mathematical model to replicate virus spreading.
- Implemented modifiable simulation variables to enhance interactivity.

SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML, CSS, SQL, C, C++
Tools/Frameworks: Flask, React.js, PostgreSQL, Node.js, Selenium, AWS, React-Native, Bootstrap, Chakra-UI, Webpack, Vite, TailwindCSS, scikit-learn, pandas, numpy, Ubuntu, Visual Studio Code, Android Studio, Git, GitHub

AWARDS

Competitions – Winner of health{hacks} 2021 hackathon out of **178** participants. Designed a machine-learning pandemic simulation tool over 24 hours with JavaScript, HTML, CSS, MySQL. Presented to a panel of **9** Ivy League judges
Awards – IVC Dean's List (3.5 GPA or higher), AP Scholar w/ Distinction, IVC Scholarship Foundation