



# ANDREW HO

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## EDUCATION

Irvine Valley College, Santa Monica College

B.S. June 2024

Computer Science

GPA 4.0/4.0

## RELEVANT COURSEWORK

- Data Structures
- Algorithms
- Computer Architecture
- Software Engineering
- Networking
- Digital Logic

## PROJECTS

**Watchlist - Movie Recommendation App** | *Flask, React, PostgreSQL, pandas, scikit-learn, Ubuntu* Jan. 2022

- Built backend Flask REST API which serves data to React frontend and hosts collaborative filtering machine learning model for movie recommendations.
- API utilizes MovieLens dataset and TMDB API.
- Users list 5 favorite movies and given recommendations based on collaborative filtering machine learning model API.
- Users can swipe left/right to get more accurate movie recommendations

**unicart - Budgeting App** | *Flask, Python, JavaScript, PostgreSQL, Bootstrap, Ubuntu* Jan. 2022

- Built web app where users can create, update, delete, and share product wishlists of products across all websites.
- Utilizes web scraping to retrieve image metadata and for client rendering
- Hosted on remote Ubuntu Server using Linode.

**SpiceTracker - Recipe Sharing Android Mobile App** | *Java, Python, Firebase, Android Studio* Sep. 2021

- Built an Android app that where users can post, share, and view other users recipes.
- Developed logic of the Android App while on team of four.
- Implemented search functionality, infinite pagination, and recipe fetching logic.
- Managed multiple branches with team members on GitHub repository.
- Users can like, follow, and comment on other users posts.

**Instagram Clone Android App** | *Java, Firebase, Android Studio* Oct. 2021

- Instagram Clone Android app using Java and Firebase backend.
- Utilized Android camera API to upload photos.
- Implemented pagination by fetching user follow list from Firestore.
- Users can post, sign up, sign in, and view their profile

**Simdemic - Pandemic Simulator** | *JavaScript, HTML, CSS* Jun. 2021

- Developed hackathon prototype pandemic simulation service web application.
- Designed mathematical model to replicate virus spreading.
- Created ability to adjust variables and factors to change simulation.
- Pitched to hackathon judges as SaaS for governments agencies and businesses.

## EXPERIENCE

**Love Yourself - Clothing Startup** Aug. 2020 – Jan. 2021

Web Developer

Irvine, CA

- Developed, managed, and maintained web store for local clothing startup brand using HTML CSS, and JavaScript

**Phi Theta Kappa Honors Society** Aug. 2021 – Present

College Project

Irvine, CA

- Worked with school administration to bring a new leadership skills course to Irvine Valley College students.

## AWARDS/ACHIEVEMENTS

**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** – AP Scholar w/ Distinction. Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams, IVC Dean's List

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java, C, C++, HTML/CSS, PostgreSQL

**Tools/Frameworks:** Flask, React.js, Selenium, Ubuntu, sklearn, pandas, Visual Studio Code, Android Studio, Git, GitHub