ANDREW HO

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EDUCATION

Irvine Valley College, Santa Monica College   Computer Science
B.S. June 2024   ***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 funciontality, 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