ANDREW HO

Irvine, CA 92620

📞 949-245-4519 ✉ andyminhtuanho@gmail.com 🔗 linkedin.com/in/andrewmnho 🌐 andrewmho.netlify.app/

EDUCATION

University of California, Irvine <div align="right">June 2024</div>

B.S. Computer Science <div align="right">***GPA 4.0/4.0***</div>

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

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SKILLS

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

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EXPERIENCE

Snap Inc. — Full-Stack <div align="right">**Jun. 2022 – Aug. 2022**</div>

Snap Engineering Academy Scholar <div align="right">*Santa Monica, CA*</div>

- Developing experimental features in a re-designed Snapchat client using **React Native** while collaborating with cross-functional teams including UI/UX design and marketing teams based on mentor feedback.
- Integrating **Firebase, Firestore, and Authentication** to implement experimental features assisting with food-security

Love Yourself — Clothing Startup <div align="right">**Aug. 2020 – Jan. 2021**</div>

Web Developer <div align="right">*Irvine, CA*</div>

- Developed and maintained web store using HTML, CSS, and JS for local clothing startup brand leading to **50%** increase in sales
- Integrated **Square Payments API** to handle customer payments

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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.

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, AP Scholar w/ Distinction, IVC Scholarship Foundation