




# ANDREW HO

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## EDUCATION

### University of California, Irvine

Exp. June 2025

*B.S. Computer Science*

**GPA 3.85**

**Coursework** : Data Structures and Algorithms, Computer Architecture, Machine Learning, Databases, Design & Analysis of Algorithms, Probabilistic Graphical Models for Machine Learning

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## EXPERIENCE

### Snap Inc. | Backend, Microservices

**Jun. 2023 - Present**

*Software Engineer Intern*

*Santa Monica, CA*

- Utilized **Kafka** distributed event streaming to construct a real-time analytics backend for KPIs to better adjust monetization and ranking models, improving ads ranking accuracy and A/B cost analysis by **14%**
- Streamlined developer workflow by creating Docker dev cluster, reducing ramp up time by **12%**.
- Applied **gRPC** API endpoints to integrate with existing service mesh microservice architecture, saving infra costs by **43%**
- Leveraged **Strimzi** operators, **GKE**, **Kubernetes**, and **Helm** to orchestrate the Kafka cluster.
- Optimized **Druid's** multi-dimensional range partitioning algorithm to maximize parallelism, improving batch pipeline and ad-hoc query performance by **22%**

### University of California, Irvine

**Dec. 2023 - Present**

*Full-Stack Web Developer*

*Irvine, CA*

- Building scalable **C# REST APIs**, Student Center tools such as internal employee management tools, bookings, analytics tools, and student body applications using **SQL Server**, **JavaScript**, **TypeScript**, **Angular**, **AWS EC2**, **C# ASP.NET SCSS**, **Jenkins**, and **Grafana**

### Snap Inc. | Full Stack & Leadership

**Jun. 2022 – Aug. 2022**

*Software Engineering Scholar*

*Santa Monica, CA*

- Developed Snapchat 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 ingredients in user's proximity.
- Collaborated in cross-functional environment including UI/UX design and marketing teams in partnership with the non-profit, **Our Own**.

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## PROJECTS

### Watchlist - Machine Learning Movie Recommendations | *Flask, React, PostgreSQL, Chakra-UI, pandas, Kubernetes, AWS EKS*

- Constructed **Flask microservices** powered by machine learning to provide ML movie recommendations and additional core functionality to **React** frontend.
- Designed **collaborative filtering ML model** trained with MovieLens dataset with over **2.5 million** ratings and TMDB API, using cosine similarity methods.

### WealthTracker - Personal Finance | *Flask, React, Docker, ECS, Stripe API, Plaid*

- Developed **React** web app client to display any user's finance analytics.
- Deployed **Flask** server utilizing Plaid API to handle bank integrations requests and fetch bank, credit, and investment data. Utilized ARIMA to analyze spending anomalies

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## SKILLS

**Languages:** Python, JavaScript, TypeScript, Go, Java, HTML, CSS, SQL, R, C, C++, Arduino

**Tools/Frameworks:** gRPC, Flask, Django, React.js, PostgreSQL, MySQL, Node.js, Selenium, AWS, Docker, Kubernetes, React-Native, Bootstrap, Chakra-UI, Webpack, Vite, TailwindCSS, scikit-learn, pandas, numpy, Ubuntu, Code, Android Studio, Git, GitHub, Cassandra, PySpark, , Gradle

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## AWARDS

**Competitions** – Winner of Stanford's 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

**Organizations** – Data at UCI, Hack at UCI, ACM, Music Education for Undergraduates, Autonomous Roomba Team