

Angela Yang

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EXPERIENCE

NETFLIX

Software Engineer Intern

June 2024 - Sept 2024

- Developed a **RESTful Flask API** to enable scalable CRUD operations, utilizing **DynamoDB** as the primary datastore and eliminating redundant processes to enhance performance.
- Implemented robust **AuthZ Controls** and input validation to ensure secure and clean database entries, using **AWS IAM** for permission management.
- Developed a configuration system using **YAML** files to allow for flexibility and modularity in the service's tables, cache timeout, GSI indexes, and filterable attributes.
- Enhanced debugging capabilities through comprehensive logs, alerts, monitoring, and documentation, significantly reducing downtime and improving maintainability.

Verifiable & Control-Theoretic Robotics Lab - UCLA

ML Researcher

June 2023 - April 2024

- Engineered advanced algorithms for Dr. Brett Lopez's VECTR lab, enhancing the A* navigation algorithm for autonomous drones equipped with **LiDAR** input and **ROS** (Robot Operating System).
- Designed and trained Deep Learning models to optimize velocity polynomials, leveraging **TensorFlow** and **scikit-learn** for improved performance and scalability.

Phonetics Lab, Department of Linguistics - UCLA

Webmaster

July 2023 - January 2024

- Rebuilt the UCLA Phonetics Lab website, consolidating information into a consistent and intuitive format using **HTML**, **CSS**, and **Bootstrap**; ensuring aesthetic and functional requirements were met.

Language Acquisition Lab - UCLA

R Developer

April 2023 - August 2023

- Developed a linguistic analysis application for Dr. Megha Sundara's developmental phonetics lab using **R** and the **Shiny** framework, enabling efficient parsing, organization, and visualization of infant speech phonetics.
- Implemented advanced functionalities such as sound clipping and data fetching with **Pratt** for over 40,000 phonetic sounds, optimizing with caching mechanisms and additional search features.

UCLA IT Services

IT Support Analyst

March 2022 - Present

- Identified and resolved technological issues with an emphasis on end-user satisfaction, providing support for **Windows** and **Macintosh** operating systems, as well as supported software and services such as **email client software** and **proxy server configuration**.
- Demonstrated strong customer service skills in addressing a wide variety of **network**, **account management**, and **cybersecurity issues**, ensuring secure and reliable access to IT resources.

PROJECTS (github.com/ayangelah)

Clairvoyant: Developed an **ETL system** to automatically extract Fitbit data using **Fitbit SDK** and **Auth0** and store it in a **SQLite** database, enabling efficient analysis of personal health metrics.

PRideal World: (2024 QWER Hacks Winner) Developed an empathy-driven platform using **Ollama** and **Unity** to teach bias-awareness and support the LGBTQ community through interactive social simulations.

Moon-Struck: (2023 LAHacks Entry) A web application built with the **MERN stack** and **Google Cloud** that helps long-distance couples stay connected through real-time personalized features utilizing **Leaflet** location library.

EDUCATION

University of California, Los Angeles (UCLA)

Bachelor of Science, Computer Science & Linguistics

September 2021 - June 2025

- GPA: 3.734
- Coursework: Algorithms and Complexity, Data Structures, Software Construction, Artificial Intelligence, Machine Learning, Data Management Systems, Networks, Operating Systems, Computer Architecture, Object-Oriented Programming, Programming Languages, Computational Linguistics, Computational Genomics, Functional Automata, Discrete Mathematics, Linear Algebra, Multivariable Calculus, Syntax, Phonetics, Phonology, Semantics