

GWYNETH HUYNH

Los Angeles, CA

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY (4.00 GPA)

Master of Science in Computer Science

Atlanta, GA

2023-Present

UNIVERSITY OF CALIFORNIA, LOS ANGELES (SUMMA CUM LAUDE – 3.99 GPA)

Bachelor of Science in Human Biology and Society

Los Angeles, CA

2017-2020

PROJECTS

CAPSULE | JAVASCRIPT, PYTHON

- Developed a comprehensive end-to-end web application using **React** and **Node Express**.
- Integrated **AWS S3** for cloud storage and **MySQL** database to manage and retrieve user-uploaded images.
- Designed and implemented a **collaborative filtering** recommendation system, enhancing user experience through personalized outfit combinations.

SIMPLE DISTRIBUTED FILE SYSTEM | C++

- Implemented remote procedure calls using **gRPC** and **Protobuf**, enabling efficient storage, listing, and retrieval of files on a remote server.
- Integrated **synchronization** and **caching** mechanisms, ensuring file consistency across multiple clients and threads.

SPLITIT | JAVASCRIPT, PYTHON

- Developed a web application using **React** and **Django** to simplify bill splitting within groups.
- Integrated the **Google Cloud Vision API** to parse receipt images into itemized totals.

COURSEWORK/SKILLS

- **Languages:** Python, Java, C++, JavaScript, SQL, R, Bash, CSS, HTML, C
- **Technologies/Frameworks:** QIIME2, React, Node, Express, Django, MongoDB, MySQL
- **Coursework:** Data Structures and Algorithms, Operating Systems, Machine Learning, High Performance Computer Architecture, Computer Networks, Statistics

EXPERIENCE

CALIFORNIA NANOSYSTEMS INSTITUTE

Los Angeles, CA

Bioinformatics Research Assistant

2021-Present

- Developed and tested **Bash** and **Python** scripts to streamline pipeline commands and data entry, significantly reducing data processing time from hours to mere seconds.
- Led team through migration from an outdated bioinformatics data science platform to **QIIME2**.
- Utilized **R** and **Python** to generate comprehensive visualizations for alpha diversity, beta diversity, differential abundance, principal component, and hierarchical clustering analyses.
- Denoised and processed millions of raw DNA sequence reads, enabling in-depth analysis of the composition of thousands of vaginal microbiome samples.

WORLD RELIEF SOUTHERN CALIFORNIA

Garden Grove, NY

Immigration Services Intern

2018, 2021

- Led STEM classes, activities, and counseling sessions for refugee youth groups.
- Maintained and updated electronic legal record of 300+ clients (DACA, Green Card, Citizenship, U-visa).

ACTIVITIES/AWARDS

- UCLA Wushu A team (September 2017 – December 2020) and first place at Wushu Collegiate team event (April 2019)