

Alex Xia

khxia24@gmail.com | github.com/khxia | linkedin.com/in/alex-xia-52065019a | khxia.github.io

Education

University of California, Los Angeles

Expected Graduation: 2023

Bachelor of Science, Computer Science

GPA: 3.93

- Courses: Data Structures and Algorithms in C++, Introduction to Computer Organization, Software Construction Laboratory
- Honors and Awards: UCLA Dr. Vincent Ho Scholarship in Engineering 2020, Dean's Honors List Winter 2020, Dean's Honors List Spring 2020
- Skills: C/C++, Python, HTML/CSS, JavaScript, MySQL

Experience

TESS Asia

Jun 2020 – Sept 2020

Software Engineer Intern

Hong Kong

- Created a facial recognition program using a Resnet-50 based Siamese neural network with PyTorch.
- Built a facial verification and image editing API for training and testing data.
- Set up a cloud mail server from scratch using a MySQL, Apache, Postfix, and Dovecot framework.
- Migrated roughly 80 GB worth of company account configurations and user data from the old mail server to the new server.

UCLA ACM Hack

Nov 2019 – Present

Officer

Los Angeles

- Co-directed a quarter-long Tooling Workshop Series to beginners that covers topics such as Git, Shell Scripting, Regular Expressions, and LaTeX. (github.com/uclaacm/hack-tooling-series)
- Taught an Android development workshop with Kotlin to beginners as part of a quarter-long workshop series. Mentored students on any app development issues during weekly sessions. (github.com/uclaacm/hack-sprint-w20)

Physics Department, Chinese University of Hong Kong

Jul 2018 – Aug 2018

Research Intern

Hong Kong

- Created a MATLAB program that tracks and records the movement of bacteria, outputting the results as structured data.
- Shortened the video analysis time from what would have taken 2 months to a few hours.

Centre of Combustion Energy, Tsinghua University

Jul 2017 – Aug 2017

Research Intern

Beijing

- Designed and implemented a MATLAB program that records the change in shape of individual ethanol droplets over time.

Projects

UCLA ACM Hack Website

March 2020 – Present

hack.uclaacm.com

- Developed a responsive 404 page for UCLA ACM Hack's Website using React.js and Material-UI.
- Implemented a carousel feature that queries photos using GraphQL and displays them on the front page.

Draw My Professor

2019

- Built a web application using React allowing the user to draw objects and pictures on a blank canvas.
- Implemented a submission feature that would let users store their drawings into a database (Firebase) and would allow them to query from Firebase when they next opened the application.