

# Qi, Yuxuan

Email: qiyuxuan@g.ucla.edu | Phone: (+1) 424 877 2981

## EDUCATION

---

University of California, Los Angeles

*B.S. in Computer Science (In Progress / Junior Standing) | Sep 2020 – Jun 2024 | GPA (current): 3.987/4.0*

- **Relevant Coursework:**

Algorithms and Data Structures, Object Oriented Programming, Computer Organization, Operating Systems, Software Construction, Web Development, Artificial Intelligence, Computer Graphics

## TECHNICAL SKILLS

---

- **Languages:** Python, JavaScript, C/C++, C#, HTML/CSS, Bash
- **Frontend and Backend Technology:** React.js, Express.js, Node.js, Material UI, MongoDB, MAUI

## WORK EXPERIENCE

---

Orbis System

New Jersey, NJ

*Software Engineer Intern*

*Jun 2022 – Sept 2022*

- Transferred the code base of *Orbis Colmex Pro*, a stock trading mobile app, from Xamarin to .NET MAUI (Multi-platform App UI) development framework (XAML and C#).
- Adjusted GUIs and web services to achieve application performance consistency between iOS and Android.
- Researched on and conducted multiple experimental frontend projects in MAUI and MAUI with Blazor.
- Evaluated the functionalities (GUIs and visual display, cross-platform consistency, libraries) provided by Xamarin, MAUI, and MAUI with Blazor. Compared the performance of app functionalities on each .NET framework.

PingAn Technology

Shanghai, China

*Intern of Computer Vision Group*

*Jul 2021 – Aug 2021*

- Conducted tests on different algorithms' effectiveness in analyzing still and dynamic facial samples captured by IR and RGB cameras of varied qualities and strengths. Enhanced non-liveness recall rate from 93% to 98%.
- Processed >1,000 video samples with test programs and performed statistical analysis on runtime results.
- Collaborated with the algorithm development group to evaluate the performance of algorithms over a diverse set of data, camera parameters, and background OpenCV models.
- Improved the efficiency of testing procedure by optimizing data processing APIs (C++, Python, JSON, Bash) and multiprocessing setups of existing testing programs/APIs in Linux and Windows environment.

## SELECTED PROJECTS AND RESEARCH

---

Research on Image Auto-staining

University of California, Los Angeles

*Image Processing Research Assistant*

*Since Apr 2022*

- Contributed to research on biomedical image auto-staining, an HHMI sponsored project that focuses on building and training GAN auto-staining network to generate virtual histology staining.
- Assisted to improve the image translation training network used by the image registration process (in progress).

We Trip

University of California, Los Angeles

*Full-stack Web Application*

*Apr 2022*

- Developed We Trip, a full-stack web app that provides a collaborative trip planning platform.
- Utilized Google Map API to implement map display, location search, display of location details, and route planning.
- Designed features to allow users to add, delete, change the relative order of, and/or add notes to locations with React.js.
- Designed and built map data model and backend framework with MongoDB/Mongoose.js and Express.js.

Bruin Market

University of California, Los Angeles

*Full-stack Web Application*

*Feb 2022*

- Developed Bruin Market, a full-stack web app that lets UCLA students trade their used goods online.
- Designed graphical user interface to display goods on sale and user's trading history with React.js and Material UI.
- Created interactive functionalities that allowed users to comment, give ratings, and send messages and transaction codes.
- Implemented user authentication system and backend framework with MongoDB/Mongoose.js, Node.js, and Express.js.