

# JACKY XIA

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## Education

### University of California, Irvine

Sep 2021 – Jun 2025

Bachelor of Science in Computer Science | GPA: 3.63

Irvine, CA

**Relevant Coursework:** Data Structures, Algorithms, Database Management, Computer Networks, Embedded Software, Operating Systems, Systems Programming, Computer Architecture, Web Development

## Experience

### UCI Course, ICS 31: Introduction to Programming

Sep 2023 – Present

CS Course Laboratory Tutor (Learning Assistant)

Irvine, CA

- Guided **40+** students in an introductory Python course, offering targeted advice on improving their code.
- Employed innovative teaching methods to assist students with advanced topics such as **Asymptotic Analysis**, **Databases**, and **Functional Programming**, resulting in **93%** of students passing with a C or higher.
- Assessed gaps in student learning through weekly labs and provided feedback to course instructor, leading to a **20%** increase in 5.0 ratings for the instructor on RateMyProfessor.

### UC Irvine

Jul 2023 – Sep 2023

Software Engineer Intern

Irvine, CA

- Worked under the supervision of [👤 Prof. Chen Li](#), the Director of ICS Master of Computer Science Program.
- Orchestrated the development of a **Flask** application using **Docker**, facilitating seamless integration with a **WordPress** website hosted on **Google Cloud Platform**.
- Engineered a dynamic front-end feature leveraging **JavaScript** and **HTML**, enabling users to upload JSON-formatted workflow to a remote API.
- Devised and implemented a dynamic **container** orchestration feature, resulting in a **20%** reduction in server costs and enabling instantaneous workflow execution via **API** calls.

## Projects

### 🔗 Texera | Scala, Java, TypeScript, HTML, Python

September 2023

- Engineered a high-performance, collaborative data analytics platform that now serves over **4,000** global users across various industries.
- Introduced data visualization operators, optimizing data processing speeds by approximately **10%**.
- Expanded unit test coverage for a core **Scala-based system** service, enhancing code reliability by improving line coverage by **15%**.

### 🎮 Breakout Game | HTML, CSS, JavaScript

August 2023

- Designed and implemented a Breakout game utilizing **HTML5** Canvas and **JavaScript**, featuring real-time gameplay.
- Crafted a fully responsive UI enriched with interactive elements using advanced **CSS3** techniques.
- Engineered real-time scoring algorithms and dynamic brick layout algorithms to provide an engaging user experience.

### Global Airport GUI | Python, SQLite3

May 2023

- Developed a **Python-based GUI** application capable of parsing and storing intricate data related to **75,880** global airports in an SQLite3 database.
- Utilized **SQLite3** for complex data queries and detailed airport information.
- Employed **inheritance** principles that reduces repetitive code by **30%**.

## Technical Skills

**Languages:** Python, HTML, CSS, JavaScript, TypeScript, Java, Scala, SQL, C++

**Technologies/Frameworks:** Git, Linux, React, REST API, Docker, Flask, WordPress, Google Cloud Platform

## Leadership / Extracurricular

### 👥 UCI Chinese Students and Scholars Association

Spring 2022 – Present

Vice President

University of California, Irvine

- Led organization of **100+** members to work towards the goal of improving the lives of Chinese students academically, socially, and professionally.
- Managed board of **13** members and ran weekly meetings to oversee progress of organization's **7** committees.