

# JUN XIA

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## Education

### University of California, Irvine

Sep 2021 – Jun 2025

Bachelor of Science in Computer Science | GPA: 3.67

Irvine, CA

**Relevant Coursework:** Data Structure Implementation and Analysis, Calculus III, Database Management, Machine Learning and Data-Mining, Searching Systems, Test-driven Development

**Honors:** Dean's Honor List (4 quarters)

Sep 2021 - Dec 2023

## Technical Skills

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

**Frameworks/Libraries:** React.js, Express.js, Node.js, Angular.js, TensorFlow, PyTorch, Pandas, Numpy, Keras

**Technologies:** Git, CI/CD, Linux, REST API, Docker, Kubernetes, MySQL, MongoDB, WordPress, Google Cloud Platform Computing Service, AWS EC2

## Experience

### Teaching Assistant

Sep 2023 – Present

UCI Course, ICS 33: Intermediate Programming

Irvine, CA

- Mentored **50+** students in an intermediate **Python** course, offering targeted advice on improving their code.
- Initiated 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.
- Analyzed student learning gaps via weekly labs, boosting the instructor's RateMyProfessor 5.0 ratings by **20%**.

### Software Engineer Intern

Jul 2023 – Sep 2023

Information Systems Group, UC Irvine

Irvine, CA

- Orchestrated the deployment of a **Flask** application using **Docker**, facilitating seamless integration with a **WordPress** website hosted on **Google Cloud Platform**.
- Engineered a responsive front-end feature leveraging **JavaScript** and **HTML**, enabling users to upload JSON-formatted data to a **RESTful API**.
- Optimized dynamic container orchestration, reducing server costs by **20%** and enabling instant API-driven workflows.

## Projects

**PulsePost** | *MongoDB, Express.js, Angular.js, Node.js*

Mar 2024

- Crafted a dynamic **MEAN stack** web application facilitating user interactions through registration, login, and the ability to create, share, and view posts with multimedia content.
- Secured backend APIs, integrated with the **Angular** frontend via **HttpClient** service, and utilized **MongoDB** with **Mongoose** for advanced data management, including file upload and pagination features.
- Designed **user authentication** and session management using **Bcrypt** for password hashing and **JSON Web Tokens** for secure user sessions, integrating automated token refresh and error handling to enhance user experience.

**AntAlmanac** | *TypeScript, HTML, CSS*

Feb 2024

- Improved and debugged an open-source schedule planner, serving **15,000+** active UCI students.
- Resolved Copy Schedule Conflict feature, decreasing potential user errors with real-time visual feedback.
- Collaborated with team leadership and peers to improve pull requests based on code reviews and best practices.

**Texera** | *Scala, Java, TypeScript, HTML, Python*

Sep 2023

- Streamlined a collaborative data analytics platform that now serves **250+** global users across various industries.
- Introduced data visualization operators, optimizing data processing speeds by approximately **10%**.
- Expanded unit test coverage for a Scala-based system service, improving line coverage by **15%**.

**Global Airport GUI** | *Python, SQLite3*

Aug 2023

- Established a Python-based GUI for travelers to access data on **75,880** global airports.
- Centralized data with SQLite3 for efficient airport queries.
- Applied **inheritance** principles that reduces repetitive code by **30%**.

## Leadership / Extracurricular

### UCI Chinese Students and Scholars Association

Apr 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 and socially by hosting comprehensive workshops and panels for resume review, interview prep, and social networking.
- Managed board of **13** members and ran weekly meetings to oversee progress of organization's **7** committees.
- Forged partnerships with **10+** local businesses for event sponsorships, enhancing the organization's resources.