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, 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*
- Guided **50+** students in an intermediate **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.
- 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

Traffic Vision Learner | *Python, OpenCV, TensorFlow, Scikit-Learn*   **Dec 2023**
- Developed a traffic sign classification model using **Convolutional Neural Networks** to achieve an accuracy of **96%**.
- Executed image pre-processing to enhance the model's performance on a dataset of 43 traffic sign categories.
- Designed a user-friendly command-line interface for efficient traffic sign model training and deployment.

AntAlmanac | *TypeScript, HTML, CSS*   **Nov 2023**
- 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 **4,000+** 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.
- Secured partnerships with **10+** local businesses for event sponsorships, enhancing the organization's resources.