

# Bowen Wang

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## EDUCATION

### University of California, Irvine

Irvine, CA

Bachelor of Science in **Computer Science & Business Information Management**

Sept. 2022 – June 2026

- Cumulative GPA: **3.93/4.0**

**Relevant Coursework:** Data Structure & Algorithms, Machine Learning & Data-Mining, Databases and Web Applications, Information Retrieval

## EXPERIENCE

### Full-Stack Developer

Oct 2024 – Present

*Commit the Change*

Irvine, CA

- Developing a website for Center Stage, a nonprofit Asian dance school, using **React**, **Node.js**, **PostgreSQL**, **AWS S3**, and **RESTful APIs** to manage classes and register **1000+** yearly students
- Collaborated in **Agile sprints**, refining user requirements through **pair programming and client feedback**.

### Peer Analyst

Sept 2024 – Present

*School of Information and Computer Sciences, University of California, Irvine*

Irvine, CA

- Processed and maintained **1,600+** student records, ensuring **100%** accuracy in academic plans and prerequisite clearances.
- Advised over **200** computer science students on academic goal-setting and graduation planning, promoting and referring them to appropriate services for additional support.

### Python Learning Assistant

Jan 2023 – Dec 2023

*University of California, Irvine*

Irvine, CA

- Collaborated closely with instructional team and provided support for **300+** students on key programming principles such as data types, object-oriented programming, functions, Tkinter, and APIs to enhance learning.

### Machine Learning Research Analyst

Sept 2022 – June 2023

*University of California, Irvine*

Irvine, CA

- Trained **Random Forest and SVM models** in Python to predict stock price trends with **65% accuracy**.
- Conducted **data preprocessing and feature engineering**, improving model performance.

## PROJECT

### Fabflix | Java, MySQL, Tomcat, HTML/CSS, JavaScript

April 2024 - Present

- Built and deployed a production-ready full-stack movie database application on **AWS EC2**
- Created Java servlets with **JDBC** to query a **MySQL** database of 10k movies and 70k actors, optimizing query times by **200%** using connection pooling and load balancing
- Built dynamic search, pagination, cart, and checkout features with secure login and session tracking via **MVC** architecture

### Center Stage | React, Node.js, JavaScript, PostgreSQL

Oct 2024 - Present

- Automated RSVP and attendance tracking, reducing manual work by **95%**, saving **50+ admin hours per month**.
- Built an admin dashboard for monitoring student engagement, improving course placement accuracy by **50%**.

### Touching Grass | Swift, XCode, Gemini AI

April 2024

- Developed an AI-powered plant identification app using Google Gemini, achieving **95%+ accuracy**.
- Integrated **real-time image recognition** and user-friendly UI for smooth interactions.

## SKILLS

**Technical Languages:** Java, Python, C/C++, SQL, JavaScript, R, HTML/CSS, Swift

**Framework/Developer Tools:** Git, AWS, GCP, React, Node.js, Next.js, Figma, MongoDB, Tailwind, Firebase

**Additional Skills:** Mandarin(Native), Web3, Crypto