

# Donovan Chen

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## EDUCATION

### University of California, Irvine

Expected June 2026

*B.S. in Computer Science, specializing in Intelligent Systems*

*GPA: 3.66*

## EXPERIENCE

### theCoderSchool | Code Coach

January 2026 - Present

- Mentor students (ages 7-18) in a 1:1 setting through the full software development process from brainstorming to creating a framework to programming
- Conduct debugging and code reviews for student projects, identifying syntax errors and logic flaws while teaching the best conventions for clean code

### Smyze | Software Engineer Intern

August 2025 - December 2025

- Architected outlet management system with 12 step workflow orchestrating sales channels, stock locations, and promotions, as backend infrastructure for Flutter kiosk and WeChat Mini Program with Alibaba Cloud storage
- Built full-stack menu systems for Flutter and WeChat Mini Program, integrating MedusaV2 backend and PayloadCMS for supporting multiple languages and media content
- Developed QR checkout system synchronizing Flutter Kiosks and WeChat Application through custom Medusa module for cart transfer, login authentication, and JSAPI payment execution

## PROJECTS

### Purin Car Android Application | Kotlin, Python

September 2025 - January 2026

- Developed an Android application using Kotlin and Jetpack Compose to track critical vehicle maintenance intervals
- Integrated the Smartcar API to automate vehicle data retrieval, including live odometer readings, fuel levels, and security
- Implemented local data storage using Room Database and enabled CSV import/export functionality for vehicle service record management

### Fabflix Movie Website | Java, JavaScript, HTML, CSS

March 2025 - June 2025

- Developed a full-stack website using Java Servlets, MySQL, and JavaScript, containerizing the environment with Docker and orchestrating deployment via Kubernetes on AWS
- Utilized JDBC Connection Pooling using a JNDI DataSource to manage and reuse database connections efficiently, improving application performance and resource utilization by minimizing connection overhead
- Deployed a source/replica database, routing write-heavy operations to the source and read-intensive queries to replica instances to optimize database load

### Guidance Glasses | Python, C

March 2023 - July 2023

- Developed a machine learning-powered computer vision system to aid visually impaired users by identifying pedestrian crosswalk signals from a live camera feed
- Engineered multi-sensor confidence algorithm for the ML model's visual output using ultrasonic and microphone sensors
- Trained a custom object detection model on a self-created image dataset, achieving 97.6% mean average precision (mAP) in classifying "Walk" vs. "Don't Walk" lights

## LEADERSHIP

### UCI School of Information & Computer Science

September 2025 - December 2025

*Lab Learning Assistant*

- Tutored lab sessions for 45 students, providing technical mentorship and code reviews for weekly project assignments
- Collaborated with professors and TAs in weekly meetings to improve curriculum learning strategies

### Institute of Electrical and Electronics Engineers (IEEE)

December 2024 - April 2025

*BitHacks Embedded Systems Hackathon Outreach Lead*

- Directed marketing and graphics committees to produce promotional materials for BitHacks, UCI's first-ever embedded systems hackathon, attracting 100+ hackers
- Organized event logistics by collaborating with the tech and corporate branch for website graphics and funding of shirts

### Theta Tau, Professional Co-Ed Engineering Fraternity

April 2023 - June 2025

*Secretary, Directory of Media & Chapter History*

- Managed logistics for 50+ members by coordinating schedules, recording meeting minutes, and onboarded new initiates into the national management system
- Produced rush videos, designed recruitment flyers, and conducted professional headshot sessions for over 300 students

## SKILLS & CERTIFICATIONS

**Technical Skills:** Python, TypeScript, AWS, C++, C, React, Flutter, MySQL, Kotlin, HTML, CSS, Figma, Salesforce, PyTorch

**Certifications:** AWS Certified Cloud Practitioner