

# Donovan Chen

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## EDUCATION

### University of California, Irvine

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

Expected June 2026

GPA: 3.66

## EXPERIENCE

### Smyze Software Engineer Intern | *TypeScript, Dart, Vue*

August 2025 - December 2025

*Full Stack Developer*

*Remote*

- 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, customizable options, and outlet-based filtering
- Developed QR checkout system synchronizing Flutter Kiosks and WeChat Application by developing a custom Medusa module for cart transfer, login authentication, and JSAPI payment execution

## PROJECTS

### Purin Car Android Application | *Kotlin, Python*

September 2025 - January 2026

- Developed a Kotlin and Jetpack Compose Android app for tracking vehicle maintenance intervals with a reactive UI
- Utilized Room Database for local storage and implemented service status based on concurrent mileage and time thresholds
- Created visual progress indicators for component health and built CSV import/export features for robust data portability and backup

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

March 2025 - June 2025

- Developed a full stack website with Java Servlets, MySQL, and JavaScript/jQuery and using AWS, Maven, and Docker
- 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

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

April 2023 - Present

*Scribe, Directory of Media & Chapter History*

- Managed over 50 members for attendance, recorded minutes meetings, and scheduled all times for events and meetings
- Integrated new members through initiation logistics and records to organization's platforms, and submitted information to national chapter management tool
- Produced rush videos, designed recruitment flyers, and conducted professional headshot sessions for over 300 students

### 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
- Completed 10 hour certified learning assistant program to implement evidence-based teaching strategies

### IEEE BitHacks Embedded Systems Hackathon

December 2024 - April 2025

*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
- Connected with university professors to arrange class announcements and presentations to promote and sponsor the event

## SKILLS & CERTIFICATIONS

**Technical Skills:** Python, Java, JavaScript, C++, C, AWS, Flutter, Dart, MySQL, Kotlin, HTML, CSS, Figma, Pytorch, R

**Certifications:** AWS Certified Cloud Practitioner