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 custom **TypeScript** modules for MedusaJS V2 and **PayloadCMS** to enable management over many outlets and products, extending the **Node.js** headless architecture
- Built customer facing interfaces for Android Kiosks (**Flutter**) and WeChat Mini-Apps (**Vue.js**), integrating **Alibaba Cloud** storage to distribute localized media
- Developed QR checkout system synchronizing Flutter Kiosks and WeChat Application through custom Medusa module for cart transfer, login authentication, and **JSAPI** payment execution

PROJECTS

Reddit Sentiment Analysis | *Python, TypeScript* — January 2026 - Present
- Integrating a pipeline that aggregates outputs from a **BERTopic** model, a political orientation **BERT** model, and the **RoBERTa** sentiment model to generate comprehensive political discourse analysis
- Adapting a **RoBERTa** transformer on Google's GoEmotions dataset to detect 28 distinct emotional categories, implementing multi-label classification to capture complex, non-binary sentiment profiles
- Developing an interactive **React** web application that interfaces with the **Reddit API** to fetch live discussion threads, enabling real time sentiment analysis trends on user inputted topics

Purin Car Android Application | *Kotlin, Python* — September 2025 - January 2026
- Developed an Android application using **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
- Architected a full stack movie catalog website using **Java Servlets** and **Docker**, utilizing **Kubernetes** for load balancing and **AWS** for cloud deployment of microservices
- Engineered a persistence layer using **MySQL** Source/Replica to split read/write queries and implemented **JDBC Connection Pooling** via JNDI, reducing latency for concurrent requests
- Developed a Full-Text Search feature using MySQL Boolean mode for complex query matching and secured **API** endpoints using JSON Web Tokens for stateless authentication

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++, React, MySQL, Kotlin, HTML, CSS, Dart, Vue.js, Figma, Docker, Kubernetes
Certifications: AWS Certified Cloud Practitioner