

# Daniel Zhou

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## SUMMARY

Software engineer skilled in full-stack web and Android development (React, Next.js, Jetpack Compose). Strong foundation in algorithms and system design, with additional experience in scalable applications and controls/electrical systems.

## EDUCATION

### University of California, Los Angeles

Bachelor of Science in Computer Science and Engineering  
Minor: Bioinformatics

June 2027  
GPA **3.98/4.0**

**Relevant Coursework:** Algorithms and Data Structures (CS32), Computer Architecture (CS33), Design and Analysis of Algorithms (CS180), Software Construction (CS35L), Operating Systems (CS111)

## SKILLS

**Programming:** C++, Python, Java, JavaScript/TypeScript, HTML/CSS, Kotlin

**Frameworks/Tools:** React, Next.js, React Native, MongoDB, TailwindCSS, Jetpack Compose, Node.js, Git/GitHub

**Hardware/Electronics:** PCB Design, Schematic Design, PCB Assembly, Soldering

## HIGHLIGHTED EXPERIENCES AND PROJECTS

### Leechy (Rental Marketplace)

07/2025-present

*Software Engineering Intern*

- Architected and developed a full-featured Android rental marketplace app using Jetpack Compose and MVVM architecture, integrating 50+ Kotlin modules.
- Built map-based search with Mapbox SDK, clustering 200+ listings by zoom level and reducing API calls by ~70% with caching.
- Engineered a multi-step listing creation flow, responsive UI/UX components, and optimized navigation for tablets and phones across multiple screen densities.
- Developed location-aware features with Google Places API, real-time geocoding, and user location tracking, along with a photo management system supporting 12-image uploads and multipart processing.
- Collaborated with the iOS team for cross-platform consistency, presented progress through video demos, and advised teammates on feature planning.

### BruinMovies: A UCLA Movie-Sharing and Discussion Platform

12/2024

*Full-Stack Developer*

- Implemented secure authentication with JWT, bcrypt password hashing, and Nodemailer email verification, ensuring account security and reliable onboarding for all users.
- Built atomic MongoDB updates (Mongoose) for real-time watchlist changes with instant UI feedback.
- Designed and deployed an API-driven backend for scalable user data management, incorporating input validation and dynamic avatar generation with Dicebear.

## LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

### Rocket Project, Los Angeles, CA

09/2023-present

*Electrical Ground Support Equipment Lead / Controls Lead*

- Collaborated with interdisciplinary teams to integrate controls, electrical, and software subsystems into launch operations.
- Designed and implemented ground control/data collection systems with custom PCBs, ensuring robust real-time interfacing with propulsion hardware.
- Developed Prometheus' first wireless ground communication system, implementing MQTT-based communication to enable remote operations and telemetry streaming.
- Leading development of a closed-loop throttling system, integrating custom hardware with PID control for precise propellant flow regulation.

### Creative Labs, Los Angeles, CA

09/2024-06/2025

*Frontend Web Developer Lead*

- Led a team of 3 to build a gamified React Native app for learning coding concepts, designing interactive features with engaging UI and backend compatibility.
- Designed frontend features emphasizing user engagement, backend compatibility, and development best practices.