

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), Computer Networks (CS118)

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)

Lead Android Engineer

07/2025-present

- Architected and developed a full-featured Android rental marketplace using Jetpack Compose and MVVM, integrating 50+ Kotlin modules.
- Built a Mapbox-based search system with zoom-level clustering and intelligent caching, reducing API calls by ~70%.
- Implemented core backend business logic with Supabase, including user onboarding, profiles, business accounts, analytics, and Stripe-backed payments and subscriptions.
- Owned the booking and payments lifecycle, implementing conflict detection, auto-cancellation, late fees, Stripe payment capture, refunds, subscriptions, and payouts, and transactional email workflows.
- Improved system reliability and UX by fixing state inconsistencies, optimizing inbox performance and scrolling, handling edge cases in booking expiration and cancellations, and delivering live-updating analytics dashboards.

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 propellant throttling system, integrating custom hardware with PID control and comprehensive FDIR for precise and fault-tolerant flow regulation.

Creative Labs, Los Angeles, CA

09/2024-06/2025

Mobile 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 engaging frontend features (problems, rankings, currency, progress tracking) and backend services with REST APIs, secure authentication, and scalable data storage in MongoDB.
- Established structured issue tracking and team workflow, improving development efficiency and coordination.