Daniel Zhou

510-323-5487 | daniel.jieru.zhou@gmail.com | linkedin.com/in/daniel-jieru-zhou | danielzhou.org

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 — June 2027
Bachelor of Science in Computer Science and Engineering — GPA **3.98**/4.0
Minor: Bioinformatics

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 engaging frontend features (problems, rankings, currency, progress tracking) and backend services with REST APIs, secure authentication, and scalable data storage in MongoDB.