

Benson Lee

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Education

University of California, Riverside – Bachelor of Science in Computer Science, GPA: 3.9 Sep 2022 – June 2026

Honors: NSF Undergraduate Fellow, Chancellor's Honor List, Dean's Honor List

Technical Skills

Languages: Python, TypeScript, JavaScript, Java, C++, SQL, HTML, CSS, Bash

Frameworks & Libraries: Django, FastAPI, React, React Native, Expo, Node.js, Astro, NumPy, PyTorch, Prophet

Tools & Databases: PostgreSQL, SQLite, Supabase, Firebase, SQLAlchemy, Docker, Google Cloud, Render, Vercel, Git

Methodologies: Machine Learning, Data Analytics, REST APIs, CI/CD, Offline-First Architecture, Agile

Experience

Founding Software Engineer, Lee's Noodle – Monterey Park, CA (Hybrid) Sep 2024 – Present

- **Architected** a B2B2C ecosystem serving **1,500+ customers** — 15-app **Django/PostgreSQL** platform, **offline-first React Native** app, and **Astro** marketing website — processing **10,000+ monthly transactions** with **99.999% uptime**
- **Reduced cloud hosting costs 72%** by tuning resource allocation, batching **300+ daily SMS notifications** to prevent worker timeouts, and optimizing **Django-Q2 task scheduling** within server memory constraints
- Built **automated QuickBooks Online integration** syncing **500+ daily invoices** via **Django-Q2 async queues** with fault-tolerant retry logic and customer ID recovery fallbacks, **saving up to 90 minutes of daily manual work**
- Built delivery app **used by 15 drivers** completing **40+ daily routes** with **full offline capability** — local-first SQLite sync, Bluetooth receipt printing, and signature capture — **eliminating delivery failures** from network dead zones

NSF Data Science Fellow, University of California, Riverside – Riverside, CA Jun 2025 – Aug 2025

- Discovered critical **data leakage** in pre-production **ML model** trained on **639,000+ rows** of student course history for registrar demand forecasting, revealing actual prediction accuracy of **60% versus reported 95%**
- **Presented findings** to faculty, preventing deployment of flawed model that would have misled **~26,000 students**

Projects

ParkSmart (Project Lead) [[GitHub](#)] [[Site](#)] – React, FastAPI, PostgreSQL, Prophet, Mapbox, Supabase Jan 2026 – Present

- **Led a team of 5** to build a **parking prediction app** tracking **~8,000 spaces** with **ML forecasts** via **Facebook Prophet**
- Designed data pipeline that **reduced API calls 44%** with negligible accuracy loss, from **EDA on 17K+ snapshots**
- Built **recommendation engine** ranking lots by **driving + walking commute** via **Mapbox**, filtered by **permit access rules**
- Architected **30+ endpoints (FastAPI, Supabase Auth)** with daily **Prophet retraining** generating **~5,000 forecast rows**

SRCGo - Campus Authentication App [[GitHub](#)] [[App Store](#)] – React Native, Expo, Axios Dec 2025 - Mar 2026

- **Engineered iOS app** automating campus rec center check-in via **multi-step OAuth flow** with UCR's CAS, featuring **auto-refreshing Code128 barcodes** and **encrypted credential storage** with **Expo SecureStore**

TreeChopper - Minecraft Plugin (2,800+ downloads) [[GitHub](#)] [[Bukkit](#)] – Java, PaperMC API Feb 2025 - Mar 2025

- **Launched tree-felling plugin in Minecraft** with Breadth-First Search (BFS) based 3D detection algorithm, intelligent natural-tree identification, and async scheduling for server performance

Leadership and Activities

Secretary, Executive Board – Theta Tau Professional Engineering Fraternity, UC Riverside Jan 2025 - Mar 2026

- Redesigned organization website (**React, Vercel**) with responsive mobile-friendly layouts, modernized UI components, and restructured navigation, improving visual polish receiving positive feedback from **30+ polled members**
- Coordinated communications for **40-member org** across **2 weekly meetings**, managing notes, agendas, and emails

Computer Science Reader – UC Riverside Department of Computer Science and Engineering Sep 2025 - Jan 2026

- Graded assignments and exams for **130+ students in CS141**, covering graphs, dynamic programming, and sorting
- Created grading rubrics and provided written feedback on **code quality and time/space complexity** optimizations