

Christian Herrera

Backend Engineer in Training · Express.js · APIs · System Design · Application Security

Santa Clarita, CA | +1 (661) 468-0396 | Christian.herrera.dev@gmail.com | ChristianHerrera.dev | github.com/Chrisherr1 | [LinkedIn](#)

SUMMARY

Backend-focused Computer Science student with hands-on experience designing and deploying RESTful APIs, secure web applications, and IoT systems. Proficient in Node.js, Express.js, and relational databases. Experienced with OOP principles, version control, and the full software development lifecycle from design through deployment. Familiar with Agile development practices.

TECHNICAL SKILLS

Languages: Java, JavaScript, SQL

Backend: Node.js, Express.js

Frameworks: Electron.js, Spring Boot

Databases: MySQL, PostgreSQL

Tools and Infra: Docker, Nginx, Git, Linux, Agile, version control, unit testing

Security: OAuth 2.0, CSRF Protection, Session Management, TLS/HTTPS, HSTS, CSP, Rate Limiting

PROJECTS

WebWeavr — Passive Reconnaissance Platform

[Live](#) · [Repo](#)

- Zero-footprint OSINT tool aggregating 11 third-party sources, streaming results in real time via SSE
- Deployed via Docker behind Nginx with full TLS, CSP, HSTS, and rate limiting

Notepad — Self-Hosted Note-Taking App

[Live](#) · [Repo](#)

- Layered Express.js backend (Routes/Controllers/Models/Middleware) with Google OAuth 2.0, session management, and CSRF protection
- Structured RESTful API with OOP design, consistent data modeling, and clear contracts; version-controlled collaboratively
- Deployed via Docker Behind Nginx with full TLS,CSP,HSTS, and rate limiting

Kiki's Weather Delivery — Desktop Weather App

[Repo](#)

- Cross-platform macOS/Windows Electron menu bar app with modular architecture and Pirate Weather API integration

IoT Monitoring — The Things Network

[Repo](#)

- LoRaWAN sensor network on TTN with MQTT ingestion via [Express.js](#)
 - RESTful telemetry endpoints consumed by a React Native app
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WORK EXPERIENCE

Code Ninjas

Santa Clarita, CA · 12/2025 – Present

Coding Instructor (Part-time)

- Taught programming fundamentals (functions, event-driven logic, state management) using MakeCode; C# and Unity for 3D game dev
- Reinforced debugging, refactoring, and clean-code practices aligned with the software development lifecycle

ARCS Woniya Wichoni (Breath of Life)

Northridge, CA · 08/2025 – 06/2026

Software Developer Student Associate

- Refactored React Native mobile app
 - Built LoRaWAN node network with RAK4630 devices, configured TTN gateway, and developed RESTful Express.js endpoints to serve sensor data to the mobile backend
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EDUCATION

California State University, Northridge

Expected 05/2026

B.S. Computer Science · Relevant: Data Structures & Algorithms, OOP, Database Systems, Software Engineering