

# Christian Herrera

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## OBJECTIVE

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**Seeking backend-focused internship or junior software engineering opportunities.** Strong foundation in object-oriented programming, relational database design, and scalable backend architecture.

Experienced in implementing OAuth authentication with Passport.js, session management, CSRF protection, and server-side pagination.

Experienced in building secure web applications using Node.js/Express.js, and MySQL.

## TECHNICAL SKILLS

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**Languages:** Java, JavaScript, SQL

**Backend:** Node.js, Express.js

**Databases:** MySQL, PostgreSQL

**Authentication & Security:** Passport.js (Google OAuth), Session Management, CSRF Protection

**Frameworks:** Spring Boot (currently learning and building projects)

**Core Concepts:** Object-Oriented Programming, RESTful API Design, MVC Architecture, Database Normalization, Data Structures & Algorithms, HTTP Protocol

## PROJECTS

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### NOTEPAD- SECURE NOTES WEB APPLICATION

GITHUB - <https://github.com/Chrisherr1/NotePad>

- Developed a secure notes application using **Express.js, EJS, and MySQL**
- Designed and Implemented a normalized **relational database schema**
- Integrated **Google Oauth 2.0 authentication using Passport.js**
- configured session management using **cookie-session** and **express-mysql-session**
- Implemented CSRF protection using **csrf-sync** to prevent cross-site-request forgery attacks
- Built protected **RESTful Routes** for note CRUD operations (GET, POST, PUT, DELETE)
- Structured project using modular architecture (**Views, Routes, Controllers, Models, Middleware**)

## ADDITIONAL

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**Learning:** Currently Learning Spring Boot and PostgreSQL

**Technical skills Intermediate:** HTML5, CSS, and Unity

## WORK EXPERIENCE

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### ARCS Woniya Wichoni (Breath of Life)

Northridge, CA

Software Developer Student Associate

August 2025 - Current

- Worked on refactoring React Native Mobile Application
- Created a Node Network by using Rak4630s to collect weather data and sending it to TTN
- Configured Gateway to set up LoraWAN for nodes
- Set up endpoints to receive data from TTN and set up backend to be able to use that data within mobile app

## EDUCATION

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### CALIFORNIA STATE UNIVERSITY, NORTHRIDGE

Northridge, CA

Bachelor of Science

Expected May 2026

Major in Computer Science

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Systems, Software Engineering