

Ralph Geo L. Santos

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OBJECTIVE

Motivated Computer Science student seeking a Backend Developer Internship where I can apply strong foundations in JavaScript/TypeScript, Node.js, RESTful API development, authentication systems, and database-driven applications. Eager to contribute to production-level systems, work with real-world data, and continuously grow across backend and full-stack software engineering.

EDUCATION

Bachelor of Science in Computer Science

University of Perpetual Help System DALTA – Las Piñas
4th Year (Currently Enrolled) | Expected Graduation: 2026

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python

Frameworks & Libraries: React, Next.js, Express.js, Node.js, Flask, Tailwind CSS

Databases: MongoDB (schema design, CRUD operations, indexing, aggregation pipelines)

Tools & Platforms: Git, GitHub, Vite, Railway, Render, Vercel, Firebase

Core Concepts: RESTful APIs, JWT Authentication, Web Scraping, MVC Architecture, Asynchronous Programming, Deployment Pipelines, Responsive Web Design

PROJECTS

TrackTag – Web-Based E-Commerce Price Tracking System (Thesis) | Solo Developer

<https://tracktag-production.up.railway.app/>

- Designed and deployed a full-stack price tracking platform that monitors apparel prices and reviews from Amazon and Lazada using automated web scraping.
- Implemented scheduled tracking, persistent data storage, and alert logic to notify users of price drops and promotional deals.
- Built secure authentication and protected routes using JWT-based authorization.
- Engineered the system with scalability and maintainability in mind as a real-world academic thesis project.

Tech: Next.js, Node.js, MongoDB, Puppeteer, Tailwind CSS

Spotify Clone | Solo Developer

<https://lindsaaayspoti.vercel.app/>

- Developed a responsive music streaming web application inspired by Spotify's UI and core user experience.
- Implemented reusable components, dynamic layouts, and cloud-based media handling for audio assets.

Tech: React, JavaScript, Tailwind CSS, Cloudinary, MongoDB

EmoVOX

<https://emovox.vercel.app/>

- Built an emotion-aware translation application integrating speech-to-text and text-to-speech functionality.
- Focused on accessibility, expressive communication, and intuitive interface design.

Tech: React, Node.js, Express, Tailwind CSS