

Oscar A. Romero Barbosa

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EXPERIENCE

Involve LLC -> Front-End Intern

March 2024 – April 2024

- Redesigned UI/UX for Laravel-based web applications, improving usability and responsiveness.
- Optimized front-end performance and accessibility for a better user experience.
- Collaborated on code versioning and team workflows using Bitbucket.

Raytheon UAS University Innovation Project -> Software Engineer

January 2024 – March 2024

- Developed Python scripts for autopilot functionalities in drones and autonomous vehicles.
- Programmed and configured a Raspberry Pi using Ubuntu to interface with drone hardware for real-time control and telemetry.

PROJECTS

Chill's Restaurant: Collaborative Project ([Project Link](#)) -> Backend Developer

C# | ASP.NET MVC | EntityFramework | SQL Server | ASP Identity

- Developed role-based access control for Admin, Employee, Kitchen Staff, and Clients.
- Implemented secure authentication and authorization systems (Login, Sign Up).
- Designed and developed CRUD functionalities for menu and order management.
- Deployed the web application to Microsoft Azure, enabling public access and real-time testing.

Borinquen Picks: Travel Recommendations App ([Project Link](#))

Kotlin | Jetpack Compose | MVVM Architecture | Firebase | Coil | Material Design

- Developed a Puerto Rico travel recommendation app with categorized listings for local attractions.
- Created responsive UI with dark/light theme support using Jetpack Compose.
- Integrated Firebase for content storage and Coil for asynchronous image loading.
- Implemented MVVM architecture for clean code separation and maintainability.

Chef Claude: AI-Powered Recipe Generation Web Application ([Project Link](#))

TypeScript | React | Tailwind CSS | Claude AI API

- Built a web app that generates AI-powered recipe suggestions based on user-provided ingredients.
- Integrated serverless API routes, validated data with Zod.
- Deployed a production-ready version using Vercel.

TimeTunes: Dynamic Playlist Generator from Billboard Charts ([Project Link](#))

TypeScript | Nextjs | Tailwind CSS | WebScraping | Spotify API | Vercel

- Integrated Spotify OAuth2 for user login and playlist creation.
- Scraped Billboard Hot 100 chart website to fetch popular songs.
- Built serverless API routes for song processing and playlist generation.
- Deployed full-stack application using Vercel for public access.

SKILLS

Programming Languages: C#, Python, TypeScript, Kotlin, SQL

Front-End: HTML, CSS, React, TailwindCSS

Databases: SQL Server, MySQL

Tools: Git, Github, Github Copilot, Postman

Languages: Spanish (native), English (B2 Level)

EDUCATION / CERTIFICATIONS

Bachelor of Science in Computer Science

August 2020 - May 2024

Inter American University of Puerto Rico, Bayamon Campus

Google Cybersecurity Professional Certificate

July 2024 - August 2024

Coursera