

# Oscar Julian Umaña Benavides

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## Summary

Electronics Engineer and Full Stack Developer with over 3 years of experience building scalable web solutions, including custom e-commerce platforms and automated customer service systems. Expert in TypeScript and AWS ecosystems, with a strong focus on software architecture, monorepos, and AI integration.

## Education

**B.S.    Universidad Nacional de Colombia**, Electronic Engineering Bogotá, Colombia  
Feb 2015 – May 2025

## Experience

**CEINTECCI - ECCI University**, Fullstack Developer Bogotá, Colombia  
Feb 2023 – present

- Architected an omni-channel customer service platform (WhatsApp and Web Chat) handling 16k+ monthly automated conversations and 5k+ human-agent interactions.
- Developed a high-volume mass messaging service for marketing and utility campaigns, integrated via WhatsApp Cloud API microservices.
- Implemented a Monorepo (Turborepo) structure to manage shared UI libraries (React), TypeScript types, and API contracts (ts-rest).
- Engineered a custom framework for AWS Lambda to streamline integration with AWS Lex and LLM models via AWS Bedrock for advanced AI automation.
- Automated cloud infrastructure (IaC) using Terraform and GitHub Actions across AWS services including ECS, RDS, S3, DynamoDB, and Bedrock.

**UN Women (ONU Mujeres Colombia)**, Fullstack Developer (via CEINTECCI) Bogotá, Colombia  
Mar 2024 – Feb 2025

- Developed an automated WhatsApp chatbot to provide public access to gender equality budgets and government open data (Datos Abiertos).
- Stack: TypeScript, Node.js, AWS Lambda, AWS Lex, PostgreSQL, and integration with government JSON/CSV APIs.
- Implemented dynamic image generation features to visualize budget statistics and trends directly within the WhatsApp interface.
- Architected a custom administration dashboard and analytics engine to monitor user interactions and data accuracy.

**Mangalianza**, Fullstack Developer Bogotá, Colombia  
Oct 2023 – present

- Developed a custom e-commerce engine for manga distribution with complex management for franchises, editions, and international versions.
- Built the system using Laravel, Vue.js, and MySQL.
- Managed deployment and server orchestration using Coolify on VPS, optimizing database administration and service monitoring.

**Creatvra**, Backend Developer Bogotá, Colombia  
Sept 2022 – Nov 2023

- Developed backend features and custom modules for a children's e-learning platform based on Moodle and PHP.

## Projects

**Ws Cloud API (Open Source) [Web](#)** 2023 – present

A TypeScript-based library that enables the use of WhatsApp Cloud API in Node.js and browser environments. Published as an open-source tool. Focused on type safety and ease of use for enterprise-level messaging solutions.

- Published as an open-source tool to simplify WhatsApp integration for JavaScript developers.

- Focused on type safety and ease of use for enterprise-level messaging solutions.

## Skills

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**Languages:** TypeScript, PHP, Python, SQL

**Frontend:** React, Vue, Next.js, Nuxt, Astro, Tanstack Start, Tailwind CSS

**Backend & DevOps:** Node.js (Nest), Laravel, Docker, Terraform, Github Actions, Monorepos (Turborepo)

**Cloud & AI:** AWS (ECS, S3, DynamoDB, Lambda, Lex, Bedrock), Cloudflare, Vercel, AI SDK (Vercel), AWS Bedrock

**Databases:** PostgreSQL, MySQL, SQLite, RDS

**Languages Spoken:** Spanish (Native), English (Professional)