

Oscar Julian Umaña Benavides

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Summary

Electronics Engineer and Full Stack Developer with 3+ years of experience in scalable web solutions, custom e-commerce, and AI-driven customer service systems. Expert in TypeScript and AWS ecosystems, focusing on software architecture, monorepos, and AI integration.

Education

B.S. Universidad Nacional de Colombia, Electronic Engineering Bogotá, Colombia
Jun 2025

Experience

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

- Architected an omni-channel platform handling 16k+ monthly automated and 5k+ human-agent conversations via WhatsApp and Web Chat.
- 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) and automated IaC with Terraform.
- Engineered a custom AWS Lambda framework for Lex and LLM integration 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

- Built an automated WhatsApp chatbot using Node.js, AWS Lex, and Lambda to provide access to gender equality budgets and Open Data.
- Developed dynamic image generation for statistics and a custom analytics dashboard to monitor user interaction and accuracy.

Mangalianza, Fullstack Developer (Part-time) Bogotá, Colombia
Oct 2023 – present

- Developed a custom Laravel/Vue.js e-commerce engine with complex multi-region catalog management for manga distribution.
- Managed server orchestration and deployment using Coolify on VPS, optimizing database administration and monitoring.

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

- Backend with custom PHP modules for a children's e-learning based on Moodle.

Projects

Ws Cloud API (Open Source) [Web](#) 2023 – present
TypeScript-based library for WhatsApp Cloud API in Node.js and browser environments. Published as a type-safe tool to simplify integration.

Skills

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, RDS, Lambda, Lex, Bedrock), AI SDK, Cloudflare, Vercel

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