

ANDRÉS HERNÁNDEZ

SOFTWARE DEVELOPER



Colombia



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Software Engineer (backend preference) with **2.5 years** of experience building a **fullstack web applications, RESTFUL APIs** and Software as a Service (SaaS) products on the cloud (AWS)

SKILLS

Python - Typescript - JavaScript - NodeJS - Django - React - Next - MongoDB - SQL - DynamoDB
Amazon Web Services - Docker - Serverless Framework - AWS CDK - Agile methodologies

EXPERIENCE

Software Engineer

Alegra S.A.S, (Remote)

February 2022 - Present

- Developed new features for a REST API (SaaS product) used for electronic billing and payment processing, serving over 100,000 users and processing over **1,000,000** electronic invoices per month.
- Implemented serverless architecture solutions, leveraging asynchronous event-driven flows to significantly enhance API response time by **60%** (Colombia Project). Also successfully redesigning the initial flow to achieve a time improvement of **150% (from 7.5s to 2.5s)** (Panama Project).
- Added unit and **integration tests**, covering critical points of the API. Leveraged **Jest**, **Bash** scripts, and **Python** to automate processes and set up local environments. Also implemented a **Continuous Integration/Continuous Deployment** pipeline in AWS, improving deployment speed and methodology.
- Led the project that issue electronic documents in Panama, added new features requested by the business. Utilized **Serverless Framework** with Node.js in the backend and **CDK** for Infrastructure as Code.

Fullstack Developer

March 2021 - December 2021

Ecogaia - *Ecommerce*

- Built a fullstack application for a client using **MongoDB**, **Express**, **Angular** and **Node.js** with back-office to manage and update products, cart and a payment gateway integrated with Stripe API.
- Implemented a containerized infrastructure using **Docker** and Serverless **Fargate**, leveraging tools like the AWS Cloud Development Kit.
- Utilized **AWS services** to deploy, host, and manage the application, ensuring high availability and scalability.

Disgrafic - *Company Webpage*

- Designed and developed a web application using **Angular** for a lithography company to showcase their products and allow users to request quotes for printing jobs.
- Utilized HTML and CSS to create an attractive and responsive **user interface**.
- Set up the infrastructure using Serverless Framework as code. The backend was developed using **AWS Lambda functions** written in **Python** served through an API Gateway.

PERSONAL PROJECTS

HASHIBIS - Fullstack application - ([Live Demo](#))- ([Github Code](#))

March 2023 - Present

- Built a set of microservices with serverless architecture (serverless framework) for the backend of the application using **Typescript** as the language, and services like **DynamoDB** and **S3** for data-image persistence.
- Developed a complete interface to display items/products and posts with a back-office to manage their updates, using the framework for **React Next.js** to leverage **SSR** and **NextAuth.js** to handle the authorization sessions.
- Implemented **CI/CD pipelines** using AWS Codepipeline for prepare and run tests before each deploy, using parameterized environment variables ensuring compatibility across diverse environments (dev-prod).

FORMATION

AWS Solutions Architect Associated (June 2023) & AWS Developer Associated (March 2023) [[certs](#)]

Certified in designing, deploying, and maintaining AWS-based application, understanding core AWS services, practices and methodologies

Online Formation [[certs](#)]

Formation on Software Engineering subjects with 2500+ Certified Hours of Online Learning

Bachelor of Earth Sciences (Geological Engineering) (August - 2021)

Minor in Geostatistical and Data Analysis - Universidad Industrial de Santander