

Cristian Miguel Vazquez Opalka

Fullstack Engineer | Cloud Architect | AI & Data Engineer

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PROFESSIONAL SUMMARY

Fullstack Engineer and Cloud Architect with 4+ years of experience designing, building, and deploying highly scalable multi-tenant SaaS platforms in production environments, working end-to-end across the stack — from user interfaces to cloud infrastructure. Specialized in backend development with Python (FastAPI, Django, Flask) and frontend development with React and Next.js on Node.js, along with Infrastructure as Code (IaC) using Terraform on AWS. Solid experience with serverless architectures, microservices, RAG systems, LLM integration, and high-volume asynchronous processing. Focused on solving complex problems with scalable, secure, production-ready solutions.

PROFESSIONAL EXPERIENCE

Fullstack Engineer & Cloud Architect — Analytics Town

July 2022 – Present

- Led the design and implementation of an end-to-end multi-tenant SaaS architecture, developing the backend with FastAPI, SQLAlchemy Async and PostgreSQL, and the frontends with React and Next.js, ensuring secure and efficient data separation per organization.
- Automated 100% of staging and production deployments (frontend and backend) through CI/CD pipelines with GitLab and Docker, reducing deployment time by 70%.
- Implemented Infrastructure as Code (IaC) with modular Terraform, enabling reproducible creation and management of AWS resources.
- Optimized production performance through PostgreSQL query tuning and resolution of 413/502 errors, improving API latency by 40%.
- Migrated services from AWS Lambda to AWS Fargate for long-running workloads, cutting operational costs by 30%.

FEATURED PROJECTS

Clipia – AI-Powered Intelligent Clipping Platform

- Built the application in a fullstack capacity: a React/Next.js frontend for results visualization and the Morning Digest, and a backend with an asynchronous OCR pipeline using Amazon Textract, Lambda, SNS, and SQS for high-volume document processing.
- Implemented a Retrieval-Augmented Generation (RAG) system with Qdrant for content vectorization and automatic classification using LLMs (OpenAI, Claude, Amazon Bedrock).
- Designed an automatic relevance scoring system (1–100 scale) and an automated Morning Digest for users, including its corresponding React interface.
- Carried out a strategic migration to AWS Fargate for cost optimization on long-running workloads.

Dossierfy – Regulatory Dossier Management

- Built the solution in a fullstack capacity: a React/Next.js interface for dossier management and a backend with FastAPI and SQLAlchemy Async, including dynamic per-organization database generation for a multi-tenant architecture.
- Designed an automated documentation merge process with structured logging in S3.

Alex & Cristina – WhatsApp LLM Bot with Dynamic SQL

- Developed a natural language interpretation system for secure dynamic SQL generation, integrating Amazon Bedrock and OpenAI, along with a React/Next.js admin panel for conversation monitoring.
- Implemented conversational context persistence with DynamoDB and a per-user quota and cost control system.

Besalco – Intelligent Purchasing System with LLM

- Built the platform in a fullstack capacity: a React frontend for purchasing management and a Python backend with advanced business logic and generative LLM integration to automate purchasing decisions.
- Implemented a multi-tenant architecture, enterprise integrations, and automated CI/CD pipelines.

Xitrus – Multi-Tenant Platform with LLM Integration

- Built the platform end-to-end: a React/Next.js frontend and Python microservices with LLM integration for workflow processing and automation.
- Designed API integrations and automated deployments within a multi-tenant architecture.

TECHNICAL STACK

Frontend: React · Next.js · Node.js · JavaScript · TypeScript (working knowledge)

Backend: Python · FastAPI · Django · Flask · SQLAlchemy Async · REST APIs · ASGI · WSGI

Databases: PostgreSQL · DynamoDB · Redis · SQL · NoSQL · Query Optimization

Cloud (AWS): EC2 · Lambda · Fargate · S3 · SNS · SQS · Textract · Bedrock · IAM · VPC · API Gateway

DevOps & IaC: Terraform · Docker · GitLab CI/CD · CI/CD Pipelines · Microservices

AI & Data: OpenAI · Claude · Amazon Bedrock · Qdrant · RAG · LLM Integration · Vector Search

Architecture: Multi-tenant SaaS · Serverless · Event-Driven · Async Processing · Scalability

EDUCATION

- Bachelor's Degree in Clinical Biochemistry — Universidad Andragógica Americana
- University Chemical Technician — Universidad Nacional de Quilmes
- FullStack Developer — Henry Bootcamp