

SUMMARY

Backend Engineer with 3 years of experience in technologies like Python, JavaScript, and Go, using frameworks such as FastAPI, Express, NestJS, and Gin. Specialized in AWS, microservices, and serverless architectures, building high-performance APIs and backend systems, including interactive ordering platforms across multiple countries and ticketing services for KFC and Multicines, supporting over 500K monthly users and generating more than \$340M in annual revenue.

SKILLS

Programming: Python, JavaScript, TypeScript, Node.js, Golang, SQL, React, HTML5, CSS, Shell Scripting (Bash).

Frameworks: FastAPI, ExpressJS, NestJS, Gin, Django, Flask, NextJS, Expo, Apollo GraphQL, Temporal.

Databases and Events: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, SQLite, Kafka, RabbitMQ, EventBridge.

Cloud: AWS EC2, Step Functions, Lambda, API Gateway, RDS, S3, IAM, Route 53, SQS, SNS, Cognito, Kubernetes, AKS.

Monitoring & Observability: Prometheus, Grafana, CloudWatch, Sentry, Datadog, OpenTelemetry, Jaeger, AWS X-Ray.

CI/CD & DevOps: GitHub, GitHub Actions, Jenkins, ArgoCD, Docker, Docker Compose, Terraform, Ansible, SST.

WORK EXPERIENCE

Backend Engineer, TRD, Quito, Ecuador.

Jun 2024 - present

- Engineered a centralized logging and monitoring system for +1500 kiosks across Latin America, improving operational visibility and reducing incident response time by 40% by designing a log ingestion backend for real-time analytics, error tracking, and device insights, using FastAPI, PostgreSQL, Tinybird, AWS Lambda and AWS API Gateway.
- Developed multiple payment methods for a high-traffic kiosk platform across LATAM, enabling users to have more payment options and supporting a system generating +\$340M annually, using React Native, TypeScript, and Java.
- Developed a serverless processing system for MuyuEducation to handle and analyze thousands of teacher class recordings each month, enabling real-time feedback and insights while maintaining high availability, using Go, AWS Lambda, S3, and Step Functions.
- Architected a scalable routing and delivery optimization system used by +1M users across Latin America, improving delivery accuracy and reducing order assignment latency by 35% by designing a microservices-based backend with real-time geolocation tracking and route optimization algorithms, using Python, FastAPI, PostgreSQL, PostGIS, Redis, and AWS Lambda.
- Developed a mobile and web application to help teachers improve class effectiveness by providing AI-driven recommendations and metrics on student engagement, teacher habits, and class performance, supporting +800 teachers across LATAM, using React Native, Next.js, React, TypeScript, Tailwind and Shadcn.
- Developed an internal training system for engineers that collects data from multiple technical sources using AI and RAG, helping internal teams improve skills, impacting +8 teams across the company, and driving technical development and innovation, using Llama, Supabase, Node.js, and Express.
- Built a scalable notification system for MuyuEducation, increasing the number of class recordings and report engagement by sending reminders to teachers and notifications when reports were ready, using AWS Pinpoint, Firebase, Apple Push Notifications, AWS Cognito, AWS Amplify, and NestJS.
- Developed a scalable backend for MuyuEducation to handle AI-driven recommendations and analytics for class performance integrating AWS Cognito for secure user authentication and deploying on AWS to ensure high availability and reliability, powering a platform valued at +\$5M, using NestJS, AWS, and Cognito.
- Designed and implemented a highly resilient API rate-limiting system with user-based limits and burst handling, safeguarding backend infrastructure under high concurrent traffic, preventing overloads and ensuring uninterrupted service for high-performance, scalable request management with monitoring and alerting, using FastAPI, Redis, and PostgreSQL.
- Created an analytics platform to visualize application metrics and analyze potential growth based on collected user data, supporting the app's expansion to +5 Latin American countries and improving decision-making and product insights, using NextJS, React, TypeScript, and Tailwind.

Software Engineer, TRD, Quito, Ecuador

Jun 2023 - Jun 2024

- Developed an offline-first feature for a ticketing app and website, enabling +500k users to access their tickets without internet connection, using React Native and TypeScript.
- Developed a loyalty app and website, enabling concurrent users to claim physical rewards, serving over +30000 active users monthly, using React Native, TypeScript, Zustand, React Query, and Supabase.
- Refactored and improved the logic and API integration for transaction and movement services, enhancing system reliability, data accuracy, and the overall user experience across Anefi's mobile platform, which manages +\$1B in assets.
- Implemented the new mobile app design to deliver a smoother and more intuitive user experience, supporting Anefi in achieving a highly positive impact on its mobile platform with +10000 active users and improving client engagement.
- Developed a feature in Multicines' mobile app to enable personalized banners with multiple functionalities that allow users to initiate purchase flows for movies or snacks, enhancing the experience for one of the most downloaded cinema apps in Ecuador with +1M downloads, using React Native, TypeScript, and Tailwind.

EDUCATION

Unidad Educativa Salesiana Don Bosco, Quito, Ecuador. Technical High School in Information Technology.

Sep 2019 - Jun 2022

CERTIFICATIONS

AWS Certified Developer – Associate, Amazon Web Services.

Aug 2025

Claude Certified Architect – Foundations, Anthropic.

Jun 2026

AWS Certified Cloud Practitioner, Amazon Web Services.

Dec 2024

OTHER

Team Leader: Led technical training for +20 engineers, teaching and mentoring on new technologies and tools to drive innovation, and mentored new team members to accelerate onboarding and skill development.

Open-source: Active supporter of Latin American developer communities, contributing and sharing knowledge with communities such as Crafter Station and Kebo.

Languages: Spanish (native), English (fluent).