

# Emerson Albornoz

Full-Stack Software Engineer

Cali, Colombia (Open to Remote)

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## SUMMARY

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Full-Stack Software Engineer with a backend and cloud focus. Built and deployed two live, production-grade applications end to end: APIs, React/Next.js frontends, payments, event-driven pipelines, CI/CD, and monitoring. Test-driven delivery with automated rollback. Fluent English, used weekly with native speakers.

## TECHNICAL SKILLS

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- **Languages & Frameworks:** TypeScript, JavaScript, Python, NestJS, Node.js, Next.js, React, Tailwind CSS
- **Data & Messaging:** PostgreSQL, Prisma, RabbitMQ, REST APIs, JWT authentication, Stripe API
- **Cloud & DevOps:** Docker, Docker Compose, GitHub Actions (CI/CD), Nginx, AWS S3, Linux, Prometheus, Grafana
- **Testing:** Jest, Vitest, pytest
- **Languages (spoken):** Spanish (native); English (fluent, professional working proficiency)

## PROJECTS

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### Prism Store – Full-Stack E-Commerce Platform

Solo project | Live

*Next.js, NestJS, TypeScript, PostgreSQL, Prisma, Stripe, Docker*

*Live | API | Frontend*

- Built a NestJS REST API and Next.js storefront covering catalog search, cart, Stripe checkout, order tracking, and an admin panel for products, orders, users, and refunds.
- Drove order state with signed, idempotent Stripe webhooks and database transactions, so replayed events never duplicate stock changes, orders, or emails.
- Implemented refunds that call Stripe first and restore stock in a short transaction only after confirmation, avoiding database locks held across a third-party call.
- Secured the API with rate limiting, validation, JWT, and role-based access control; integrated Cloudfare and Resend; added a typed frontend client with transparent token refresh.
- Wrote 192 API tests (70.6% line coverage) and 97 frontend tests that run in CI before every deploy.

### MediaFlow AI – Async Media Processing Pipeline

Solo project | Live

*NestJS, Python, React, RabbitMQ, PostgreSQL, AWS S3, Docker*

*Live | GitHub*

- Designed an event-driven system (API gateway, ingestion service, Python worker, real-time notifications) that turns audio, video, and YouTube links into transcripts, summaries, and keywords.
- Enabled 500 MB uploads by sending files directly to S3 with presigned URLs, so large files never consume API memory or request time.
- Built retries and dead-letter queues with redelivery-safe processing; added live per-job progress in a React dashboard via Socket.io and Prometheus/Grafana monitoring.
- Wrote 59 tests (23 gateway, 36 worker) gating a GitHub Actions pipeline with commit-tagged images and automatic rollback.

**Production:** Both projects run on a self-managed Linux VPS (OVHcloud) I hardened and operate: Nginx with auto-renewed TLS, key-only SSH, fail2ban, Docker Compose healthchecks, automated deploys.

## EXPERIENCE

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### Spanish Tutor

2022 – Present

*Self-employed*

*Cali, Colombia*

- Teach Spanish to English-speaking learners, with 4+ years of consistent weekly communication with native English speakers.

## EDUCATION

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### B.Sc. in Systems Engineering

Expected Dec 2027

*Universidad del Valle*

*Cali, Colombia*

### Technologist in Software Development (associate-level degree)

Jan 2027

*Universidad del Valle*

*Cali, Colombia*