Fabrizio Montoya

Software Engineer

Lima, Peru · linkedin.com/in/fmontoyap · github.com/fabzio · fabzio.pages.dev · +51 960 589 039 · fabriziorandall@gmail.com

Software Engineer with over 3 years of experience building end-to-end solutions across full-stack development and platform integrations. Experienced in international cross-functional teams, with a pragmatic approach to evaluating technical trade-offs, adapting to new technologies, and delivering measurable business impact. Contributed to the development of Crece Más, a platform featured in an AWS Success Story.

PROFESSIONAL EXPERIENCE

HABEMUS E.I.R.L. **Aug 2026 – Present**
AI Engineer *Lima, Peru*

- Built a production conversational agent on Instagram DMs Meta Graph API in n8n that closes orders with Redis-based message buffering, state flags, and short-term memory to handle high-concurrency campaign traffic.
- Reduced organization-specific customization time from months to weeks across 4 products by introducing ODD development methodology using SonarQube to track code quality.
- Developed the NestJS backend infrastructure for a B2B training platform dedicated to upskilling enterprises in internal apps creation using AI Agents, engineering country-based access restrictions and dynamic watermarks to prevent proprietary content leaks.

FACELE S.A.C. **Apr 2024 – Jul 2026**
AI Engineer *Peru, Chile, Colombia*

- Implemented a BI agent using Langchain and managed DuckDB with agnostic source connector engine to replace AWS QuickSight, cutting BI costs by 84% and reducing report turnaround from days to minutes via natural-language queries.
- Built an ecosystem of integrated supply chain SaaS products (React, Angular, Node.js) serving 1,000+ distributors and retailers in Peru, Colombia, and Chile under ISO/IEC 27001 security compliance earning recognition as an AWS Success Story.
- Led a technical debt reduction effort, refactoring legacy modules to improve maintainability and cutting CI/CD build times by 68%, directly lowering pipeline compute costs.
- Built the checkout flow for a React Native marketplace app connecting warehouses and end customer, reaching over 3,000 users.

AEDITIP S.A.C.S. **Nov 2023 – Apr 2024**
Full Stack Engineer *Lima, Peru*

- Built the company's core web platform and backend in Node.js and AWS, centralizing enrollment and automating certificate validation.
- Designed, built, and deployed five client landing pages with Next.js end-to-end from requirements gathering through launch.

FEATURED PROJECTS

Themis Insight *Aug 2026*
Semantic search engine for a law journal's video repository, providing answers with exact source timestamps.

- Built a RAG search system over diarized transcripts with metadata filtering and libSQL vector storage, fed by an asynchronous serverless WhisperX pipeline on RunPod, and exposed admin operations through an authenticated MCP server deployed with Docker.

Carpool It *Jan 2026*
Real-time carpooling PWA connecting drivers and riders within large organizations.

- Built with React, Cloudflare Workers, and Supabase, using Google OAuth 2.0 for authentication, optimized for running entirely on free-tier infrastructure.

Darity *Nov 2025*
Management platform for a nonprofit's health and education outreach campaigns, serving vulnerable communities and scholarship beneficiaries.

- Led development with React, Node.js, PostgreSQL, and Redis on AWS, automating infrastructure with Terraform and CI/CD Docker building with GitHub Actions. Implemented RBAC, 2FA, and passkey authentication, and built a BI dashboard.

TECHNICAL SKILLS

AI Engineering: LangChain, MCP, RAG, Harness Engineering

Backend & Data: Node.js 24 / Bun, FastAPI, PostgreSQL 16, MongoDB, Redis/Valkey, DuckDB

Frontend: React, TanStack Start, Next.js 16, Angular 21

Languages: TypeScript, Python 3.11, SQL, Solidity

Cloud & DevOps: AWS, GCP, Cloudflare, Docker, Terraform, GitHub Actions

Practices & Tools: Git / Gitflow, Scrum / Agile, SonarQube, Vitest

CERTIFICATIONS

AWS Agentic AI Demonstrated Oct 2026

Advanced MCP Topics: Anthropic Jul 2026

Strategic Communication: PUCP Aug 2026

AWS Databases for Agentic AI Demonstrated Nov 2026

EDUCATION

Pontificia Universidad Católica del Perú (PUCP) **Mar 2021 – Jul 2026**
B.S. in Software Engineering *Lima, Peru*
QS World University Rankings 2027: #1 in Peru, #357 worldwide

- AI Concentration: NLP, Reinforcement Learning, and Machine Learning. Graduated in the top 10% of the class.
- Thesis project selected for the school's XpoSTEM fair for its technical quality and innovation.
- Technical Lead, Developer Student Club: Guided technical architecture and mentored students on software development.
- Project Director, Blockchain Club: Led planning and execution of cross-functional blockchain projects.