

Nestor Mamani

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Portfolio: <https://nestor-xyz.vercel.app/>

AI Engineer

AI Product Engineer combining a strong **full-stack** foundation (TypeScript, Node.js, Next.js) with deep expertise in **Python**, **LangGraph**, and **autonomous agent orchestration**. I have 4 years of experience delivering autonomous AI systems for the fintech industry and YC/500 Global startups, driving measurable impact such as an 8% increase in cold lead conversion rates and reducing operational costs by 96%. Utilizing additional tools such as the Vercel AI SDK, PostgreSQL, and React, I am seeking a challenging opportunity where I can leverage my expertise in multi-agent workflows to build scalable, AI-native products and automate complex enterprise operations.

Work Experience

Support Engineer & AI Tooling Developer at YaVendio

Feb 2026 - Apr 2026

- Co-developed an autonomous agent engine using Claude and the Vercel AI SDK to investigate system logs and automate L1/L2 support ticket resolution, handling tickets 3 times faster.
- Implemented an AgentLoop architecture with Model Context Protocol (MCP) support to autonomously execute sandboxed Bash commands and recursive RAG searches.
- Designed a secure human-in-the-loop state machine workflow that pauses high-risk automated actions for manual Slack approvals, ensuring enterprise-grade operational security.

Main Technologies: TypeScript, Node.js, Vercel AI SDK, Claude, MCP, PostgreSQL, Redis, Next.js

AI Product Engineer at 99Labs

Sep 2025 - Jan 2026

- Architected a multi-agent "Supervisor-Worker" assistant using LangGraph and Gemini to concurrently handle and route real-time WhatsApp queries for tax retrieval and document generation.
- Engineered a legal platform with Composio MCP and the Vercel AI SDK, enabling LLMs to autonomously execute tool searches and generate contracts directly in Google Drive.
- Built a multi-tenant enterprise expense management platform featuring a WhatsApp state-machine bot for automated receipt OCR and fiscal compliance

Main Technologies: React, TypeScript, Next.js, Tailwind CSS, OpenAI API, Gemini, LangGraph, Redis, FastAPI.

Software Engineer at Holacasa (YC W23)

Nov 2023 - Mar 2025

- Built an autonomous AI lead profiling platform using OpenAI and Vapi to automate cold outreach, driving an 8% conversion rate and increasing mortgage pre-qualification engagement.
- Developed a WhatsApp-first onboarding experience with modular forms, successfully migrating the onboarding process from web to chat to improve user accessibility.
- Collaborated with Sales and Operations stakeholders to define conversational flows and seamlessly integrate AI capabilities directly into core business processes.

Main Technologies: Node.js, Express.js, Nest.js, Prisma, AWS S3, Upstash Redis & QStash, JSON Web Tokens, Langfuse, OpenAI, Slack API, Vapi

Senior Web Developer at Firmaway

May 2023 - Oct 2023

- Led the development of internal AI tools designed to automatically extract specific legal data and addresses from PDF documents using LangChain, OpenAI, and Pinecone.
- Automated outsourced web reviews by implementing web scraping and AI evaluation workflows, slashing turnaround time from 4 days to just 10 minutes.
- Reduced document processing operational costs by 96% (from \$3.00 to <\$0.10 per page) by integrating NLP pipelines to eliminate manual data input.

Main Technologies: TypeScript, Next.js, React.js, React Hook Form, Radix UI, Tailwind CSS, React Email, Headless UI, LangChain, Vector Databases, NextAuth, tRPC, Stripe, FastAPI, Python, AWS S3, AWS Lambda, AWS SES, AWS R2

Frontend Product Engineer at MisFans

Mar 2022 - Jan 2023

- Built and maintained a comprehensive design system and reusable UI components to ensure visual consistency across all product features.
- Refactored the user signup flow to significantly improve user experience, boosting the subscription conversion rate by 16%.
- Implemented Web3 functionalities, including token-gated content and NFT-based features, integrating directly with the Solana blockchain.

Main Technologies: TypeScript, Next.js, React.js, Tailwind CSS, Redux, Headless UI, Express.js, Solana, Supabase, Stripe, Mixpanel

Projects

Kubo - AI Accounting Automation Platform - holakubo.com

- Engineered a Gemini-powered pipeline using NLP (NER/Classification) to parse unstructured PDFs into ERP-ready Excel, reducing processing time by 93% (5h to 20m) while strictly optimizing prompt context and token usage to minimize API costs.
- Full-stack System Design: Built production-grade full-stack components (React, Node.js, PostgreSQL) to handle state-aware bulk file processing.
- Designed a highly scalable backend architecture utilizing GCP serverless technologies (Cloud Run, Eventarc, Cloud Tasks) managed via Terraform, ensuring resilient, event-driven invoice ingestion.

DoryAI - Multimodal AI Knowledge Assistant - doryai.app

- Engineered a multimodal agentic workflow (Gemini Flash) with multi-turn function calling to autonomously extract, summarize, and categorize web content and video transcripts.
- Designed a high-concurrency WhatsApp ingestion engine with idempotency middleware and a hybrid serverless backend (Convex, Node.js) for real-time AI workloads.

Skills

Tech Skills: Python, TypeScript, Node.js, Go, SQL. Frameworks & Libraries: React, Next.js, NestJS, Express.js, FastAPI, Prisma ORM, GraphQL, Pandas. Bases de datos: PostgreSQL, Supabase, Pinecone, pgvector. IA & ML: PyTorch, Scikit-Learn, LangGraph, LangChain, Vercel AI SDK, APIs (OpenAI, Gemini, Claude), Vapi (Voice Agents).

Agile Methodologies: Scrum, Kanban

Other Tools: AWS (Lambda, S3, SES, R2), GCP (Cloud Storage, Cloud Run, Eventarc, Cloud Workflows), Docker, GitHub Actions (CI/CD), Terraform, WhatsApp Business API, N8N, Stripe.

Languages: B2 English

Education

Anyone AI

May 2026 - Present

Degree obtained: Machine Learning Engineer Fellowship

National University of San Marcos (UNMSM)

Mar 2017 - Apr 2022

Degree obtained: B.S. in Industrial Engineering (Top Third)

Courses

Continuous Education in Software Engineering & AI (Platzi)

Certifications

AI Hackathon Perú 2025

Nov 2025