

Alejandro Alvarez

FULLSTACK DEVELOPER, AI ENGINEER & AI-POWERED ARCHITECT

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PROFESSIONAL SUMMARY

AI Engineer and Fullstack Developer with expertise in the MERN stack, Node.js, RESTful APIs, and React.js. Specialized in Generative AI, building intelligent chatbots and AI-driven solutions that enhance user experience and drive enterprise adoption. Experienced in leading AI-powered projects to improve automation, efficiency, and decision-making. Strong leadership, problem-solving skills, and adaptability. [English C1 \(certified by EF SET\)](#).

PROFESSIONAL EXPERIENCE

Fullstack Developer | 11/2025 - NOW

Olelo Intelligence

- Built the TMA/IMA LLM analysis pipeline on AWS serverless (CDK, Step Functions, Lambda, Bedrock/Claude) for automated scoring of customer-service calls.
- Developed multi-tenant NestJS + PostgreSQL backends and React/MUI dashboards across five core repositories.
- Secured the platform with AWS Cognito JWT auth, Redis caching, and S3 + CloudFront media delivery.
- Designed SMS-invoice-to-call transaction matching to defend paid-for-service KPIs, and led cross-functional product decisions.

AI Engineer | 04/2025 - 03/2026

Insightly AI

- Architected multi-agent systems and MCP servers to power AI-driven workflows, enabling scalable automation and real-time decision support across business processes.
- Applied prompt engineering techniques to optimize LLM responses, reducing error rates by 35% and improving task completion speed for agent-driven operations.
- Designed and implemented end-to-end AI architectures, integrating NestJS services, PostgreSQL storage, and orchestration layers to support high-volume, low-latency workloads.
- Led cross-functional initiatives to align development teams on AI infrastructure strategy, accelerating delivery cycles and improving reliability of deployed AI solutions.

FullStack AI Developer | 03/2025 - 09/2025

Geeks5G

- Automated content creation for over 500 Google My Business locations using generative AI, reducing manual workload and increasing posting frequency by 70%.
- Focused on building fullstack solutions with NestJS and PostgreSQL, while orchestrating low-code workflows in n8n to handle scraping, keyword scoring, and scheduled publications.
- Developed AI-driven tools to generate localized posts, keyword justifications, review responses, and summaries—integrating OpenAI models and optimizing data flow using JSONB and custom APIs.
- Led the backend infrastructure for a scalable content automation system, significantly improving operational efficiency for multiple U.S.-based clients through agile practices and continuous integration.

FullStack AI Developer | 10/2023 - 03/2025

Capital Pocket

- Developed AI solutions that automated 35% of manual tasks, reducing processing time by 50% in two companies.
- My work focused on integrating and developing APIs, managing databases, and building microservices, ensuring scalability and optimizing system performance for various web applications.
- As a backend developer, I designed and implemented generative AI solutions, developing chatbots for multiple organizations and automated tools that enhanced user experience using JavaScript and TypeScript.
- Led a development project for a public entity in Colombia, improving operational efficiency across marketing, administrative, and operational departments by implementing agile methodologies such as Scrum.

PROJECTS

Cyberix App

Medellín, Colombia

- Developed an intelligent chatbot using Node.js and Langchain, integrated with the WhatsApp Business API to provide automated services such as information retrieval, reminders, content generation, and image processing. Implemented context management with MongoDB for personalized interactions and optimized conversation flows using advanced language models and AI tools.

EDUCATION

Bachelor's degree in Materials Engineer | 06/2016 - 12/2022

University of Antioquia, Medellín, Colombia

- Analysis procedure through reverse engineering in fiberglass-reinforced polyester (FRP) products for composite material characterization.
- Academic average: 4.1
- Professional registration: 011087-0648177 ANT

TECHNICAL SKILLS

Languages: English; Advanced C1, Spanish; Native.

Programming Languages: Javascript, Typescript, Python.

Backend: Node.js, Express.js, Nest.js, MongoDB, MySQL, PostgreSQL, RESTful APIs, Pgvector.

Frontend: React.js, Vite.js, Next.js.

Cloud & DevOps: AWS, Docker, CI/CD, VPS.

AI & Automation: Generative AI, OpenAI SDK, Vercel AI SDK, Deepseek API, Chatbots, Langchain, n8n, MCP Servers, Langsmith.

Tools: Trello, Jira, Hugging Face, Excel, Google Veo3, Vertex AI.