Alejandro Sánchez Yalí

AI Engineer | Full Stack | LLMs | AWS

 Let's Connect

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SUMMARY

Full Stack Engineer with 5+ years of experience designing, developing, and maintaining enterprise-level applications. Expert in Python, Node.js, React, Next.js, and AWS. Proven track record integrating LLMs and AI/ML APIs, building scalable architectures, and delivering robust solutions for complex business needs. Strong background in cloud deployments, database integration, and cross-functional collaboration.

TECHNICAL SKILLS

- **Languages:** Python (7+ years), JavaScript/TypeScript (5+ years), SQL, Rust, C

- **Backend:** Node.js, FastAPI, Django REST Framework, Flask, RESTful APIs, GraphQL, Microservices

- **Frontend:** React.js, Next.js, TypeScript, HTML5, CSS3, Tailwind CSS, Redux, Zustand

- **AI/ML:** LLMs (OpenAI, LangChain, Whisper), TensorFlow, PyTorch, Scikit-learn

- **Cloud/DevOps:** AWS (EC2, S3, Lambda), GCP, Docker, Git, GitHub Actions, CI/CD pipelines

- **Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB

- **Other:** Performance Optimization, Scalability, Clean Architecture, SOLID principles, Testing (Unit/Integration, TDD)

EXPERIENCE

Independent IT Consultant Aug 2024 – Present

Freelance *Remote*

- Designed and delivered fullstack AI-powered applications using Python (FastAPI, Django), Node.js, and React.js
- Integrated LLMs and AI APIs into robust backend services and user-facing features
- Deployed solutions on AWS (EC2, S3, Docker), configured infrastructure, and managed CI/CD pipelines
- Modeled and integrated SQL/NoSQL databases (PostgreSQL, MySQL, MongoDB)
- Worked independently with international clients, delivering scalable, maintainable code

Full Stack Developer Apr 2021 – Aug 2024

Monadical *Remote Job - Canada/USA*

- Developed and maintained enterprise-level applications with Python (FastAPI, Django), Node.js, React.js, and Next.js
- Built and scaled microservices architectures, focusing on performance and reliability
- Integrated LLMs and AI/ML APIs into production systems
- Deployed and managed cloud infrastructure on AWS and GCP using Docker and CI/CD
- Designed and optimized database models and queries (PostgreSQL, MongoDB)

Full Stack Developer Aug 2018 – Oct 2020
BCFort *Medellín, Colombia*

– Built and maintained fullstack solutions with Python (Django), Node.js, and React.js

– Developed and integrated RESTful APIs and microservices for analytics and blockchain platforms

– Managed cloud infrastructure (AWS, GCP, IBM Cloud) and database integrations

– Ensured application scalability, performance, and reliability through testing and optimization

Professor Jan 2010 – Oct 2021
Universidad de Antioquia *Medellín, Colombia*

– Taught advanced courses in Python, Machine Learning, Data Science, and Software Engineering

– Mentored research and student projects, fostering teamwork and technical growth

– Developed curriculum and promoted best practices in programming and mathematics

FEATURED PROJECTS

- **Morpheus – AI Image Generation Platform** ⬈

    – Fullstack open-source platform for AI image generation using Python (FastAPI), Node.js, React, and microservices

    – Integrated LLMs, implemented RESTful APIs, and deployed on AWS with Docker

- **Zippy – Interactive AI Avatar** ⬈

    – Built a Next.js-based talking avatar integrating OpenAI API and Azure Cognitive Services

    – Developed backend-frontend integration in Python, Node.js, and TypeScript

- **Digital Human – Interactive AI Avatar (+ 320 Stars on Github)**⬈

    – Engineered a conversational AI system with OpenAI GPT, Whisper, and Eleven Labs

    – Implemented real-time data processing, microservices, and cloud integration

TECHNICAL BLOG POSTS

- **Zero-Shot Text Classification** (Sep 2024)

- **Neural Networks as DAGs of Parameterized Computational Programs** (Aug 2024)

- **View more articles** ⬈

EDUCATION

Master in Mathematics Aug 2010 - Sep 2013
Universidad de Antioquia *Medellín, Colombia*

B.Sc. in Teaching Mathematics and Physics Jan 2004 - Oct 2009
Universidad de Antioquia *Medellín, Colombia*