Alejandro Sánchez Yalí

Full Stack Software Developer | React.js | Python | ML/DS

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SUMMARY

I'm a full stack software developer with a mathematics background, specializing in Python and React development. I focus on building scalable web applications and have experience integrating AI services into production applications. My background in mathematics and software development allows me to effectively bridge technical implementation with analytical thinking.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, TypeScript, Rust, C
- **Frontend:** React.js, Next.js
- **Backend:** Django, FastAPI, Flask, RESTful APIs
- **ML/AI Integration:** OpenAI GPT, Whisper, LLMs, Basic TensorFlow/PyTorch
- **Databases:** PostgreSQL, MongoDB
- **Cloud/DevOps:** AWS, GCP, Docker, GitHub Actions, CI/CD pipelines

EXPERIENCE

Full-stack Developer Apr 2021 – Aug 2024
Monadical *Remote Job - Canada/EEUU*

– Developed and maintained full-stack applications using Python, Django, and React, focusing on scalable architectures
– Built and integrated AI services for information retrieval using large language models
– Designed and implemented RESTful APIs for data-intensive applications

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

– Taught advanced courses in Machine Learning, focusing on practical implementations with Python
– Mentored research projects in Category Theory and ML applications

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

– Led development of blockchain solutions with Ethereum and Hyperledger
– Managed cloud infrastructure on AWS, GCP, and IBM Cloud

FEATURED PROJECTS

- **Morpheus - AI Image Generation Platform**
  – Contributed to building a full-stack open-source platform for AI image generation using Python, React, and stable diffusion models
  – Implemented RESTful APIs and scalable architecture for handling ML model integrations

  - Developed infrastructure as code using Docker, Kubernetes, and AWS services

- **Digital Human - Interactive AI Avatar**
  - Engineered a conversational AI system integrating Open AI GPT, Whisper, and Eleven Labs
  - Implemented real-time lip synchronization creating seamless human-AI interaction

EDUCATION

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

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

CERTIFICATIONS

- Applied Data Science with Python Specialization
- Solana Blockchain Developer Bootcamp with Rust + JavaScript
- Data Science: Transformers for Natural Language Processing