Alejandro Sánchez Yalí

Frontend Developer | React, Web3 & AI Integration Specialist

📅 LET'S CONNECT

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SUMMARY

Frontend Developer with 5+ years of experience building robust, responsive, and performant web applications. Specialized in **React** and **Next.js**, with strong skills in modern frontend architectures, Web3, and AI/ML integrations. Proven track record delivering production-ready UIs, reusable component libraries, and seamless integration of emerging technologies. Experienced collaborating in multidisciplinary teams and deploying solutions to cloud environments.

TECHNICAL SKILLS

- **Languages:** JavaScript (5+ years), TypeScript (5+ years), Python, HTML5, CSS3, SQL

- **Frontend:** React.js (6+ years), Next.js (5+ years), Svelte, Tailwind CSS, SASS, Redux, Zustand, Shadcn UI, Ant Design

- **Web3/Blockchain:** Web3.js, Ethereum, dApp UIs, NFT marketplaces

- **AI/ML Integration:** LangChain, OpenAI API, LLMs, Whisper

- **Testing:** Vitest, Jest, TDD, React Testing Library

- **Build Tools:** Vite, Webpack

- **Version Control:** Git, GitHub

- **Cloud/DevOps:** AWS, Docker, CI/CD pipelines

EXPERIENCE

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

– Led frontend development using **React** and **Next.js**, implementing responsive designs and modern UI patterns for multiple web applications

– Developed frontend integrations with AI/ML services (LangChain, OpenAI API, LLMs, Whisper) across various products

– Built and maintained reusable component libraries (Shadcn UI, custom components) shared across team projects

– Implemented comprehensive testing strategies (Vitest, Jest, TDD) and advanced state management (Redux, Zustand)

– Collaborated with backend teams to deliver scalable, production-ready solutions and deployed apps to AWS/GCP using Docker and CI/CD

Frontend Developer   Aug 2018 – Oct 2020
BCFort   *Medellín, Colombia*

– Built decentralized application (dApp) frontends using **React**, Web3.js, and Ethereum

– Developed interactive UIs for blockchain applications and NFT marketplaces

– Led frontend for analytics and visualization of blockchain transactions

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

– Taught advanced courses in Machine Learning, Data Science, and Mathematics using Python, NumPy, Pandas, TensorFlow, PyTorch, and Scikit-learn
– Mentored research and student projects in ML, data analysis, and software development

Independent IT Consultant   Aug 2024 – Present
Freelance   *Remote*

– Delivered end-to-end frontend solutions for business clients using React.js, Next.js, and TypeScript
– Developed and deployed modern UIs for e-commerce, medical scheduling, and AI-powered learning platforms
– Integrated AI/ML services and LLMs into web applications, focusing on user experience and accessibility
– Implemented payment integrations, responsive design, and CI/CD pipelines

FEATURED PROJECTS

- **Morpheus – AI Image Generation Platform** ⬈
    – Built a responsive frontend using **React**, **Tailwind CSS**, and Shadcn UI components
    – Implemented complex state management (Zustand, Redux) and type-safe forms (Zod)
    – Created comprehensive test suites (Vitest, React Testing Library)

- **Zippy – Interactive AI Avatar** ⬈
    – Developed modern UI using **Next.js**, custom SVG components, and dynamic animations
    – Integrated OpenAI API and Azure Cognitive Services for AI-powered avatars
    – Implemented state management (Redux, Zustand) and type validation (Zod)
    – Built responsive layouts using SASS and modern CSS features

- **Digital Human – Interactive AI Avatar (+ 320 Stars on Github)** ⬈
    – Created interactive 3D experiences using Three.js and **React** Three Fiber
    – Integrated OpenAI GPT, Whisper, and Eleven Labs for conversational AI
    – Implemented responsive design patterns with **Tailwind CSS** and built comprehensive test coverage (Vitest, TDD)

TECHNICAL BLOG POSTS

- **Revolutionizing Animation: Building Digital Humans with React** (Jul 2024)
    – Technical guide on implementing interactive UIs with **React** and modern frontend tools

- **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*