

Alejandro Sánchez Yalí

Frontend Developer | React, Web3 & AI Integration Specialist



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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

Monadical

Apr 2021 – Aug 2024

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

BCFort

Aug 2018 – Oct 2020

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

Universidad de Antioquia

Jan 2010 – Oct 2021

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

Freelance

Aug 2024 – Present

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](#)

- 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 WRITING

- [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

Universidad de Antioquia

Aug 2010 - Sep 2013

Medellín, Colombia

B.Sc. in Teaching Mathematics and Physics

Universidad de Antioquia

Jan 2004 - Oct 2009

Medellín, Colombia