

Diego Armando Monroy Barrera

Software Engineer

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Summary Statement

Frontend Architect with 10+ years of experience designing scalable UI systems and leading modern web development (React, Next.js, TypeScript). Skilled in building robust design systems and defining frontend architecture aligned with business and product goals. Worked with AWS (S3, CloudFront, SSL/ACM) and Azure (Key Vault, Storage Account) to deliver secure and scalable web solutions.

Comfortable contributing to backend development using Python (Flask, FastAPI), and experienced in LLM-based chatbot development using LangChain. Passionate about creating exceptional user experiences while integrating AI-powered features into web applications.

Proven ability to lead teams, drive technical decisions, and bridge the gap between frontend, backend, and AI solutions.

Work Experience

Software Engineer - WEB UI Developer

Globant, Bogotá, Colombia

March 2022 - Present

- Designed and implemented scalable frontend architectures and design systems using React, Next.js, and TypeScript, improving development speed and UI consistency.
- Worked with Azure services, including Azure Key Vault for secure management of secrets and Azure Storage Account for handling static assets and backups.
- Developed a shared library of reusable UI components, enabling cross-team collaboration and reducing code duplication.
- Led technical decisions and guided frontend teams, ensuring code quality, performance, and maintainability.
- Integrated AWS services such as S3 for static site hosting, CloudFront for global content delivery, and ACM/SSL certificates to secure custom domains, ensuring reliable and secure deployments.
- Contributed to LLM-powered chatbot projects using LangChain, integrating conversational AI features into web platforms.
- Built and maintained RESTful APIs with Flask and FastAPI to support AI-driven interactions and frontend functionality.
- Architected end-to-end web solutions for AI-enhanced applications, ensuring seamless integration

between frontend, backend, and third-party services.

- Collaborated with cross-functional teams to define product features and translate business needs into scalable technical solutions.
- Participated in high-level estimations and sprint planning, aligning team capacity with roadmap priorities.
- Provided feedback and mentorship to team members, contributing to a culture of continuous learning and technical growth.
- Resolved complex technical issues across the stack, ensuring product stability and on-time delivery.

Senior Software Engineer

Epam, Bogotá, Colombia

November 2021 - March 2022

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- Built React components using TypeScript for enhanced code quality and maintainability.
- Integrated REST and GraphQL APIs with Next.js applications, enabling seamless data exchange and enhanced functionality.

Software Engineer - WEB UI Developer

Globant, Bogotá, Colombia

May 2018 - October 2021

- Contributed to developing shared design library systems for React.js components using TypeScript.
- Collaborated on the creation of different content management systems to efficiently handle data for a video streaming application using Next.js.
- Assisted in the integration and construction of a streaming web application with Next.js, ensuring a seamless user experience and enhanced functionality.

Frontend Engineer

Bizagi, Bogotá, Colombia

December 2016 - May 2018

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- Contributed to developing a dashboard for managing automated processes using Angular, HTML, and Sass.
- Supported the enhancement of a jQuery-based tool, crafting a streamlined dashboard to manage automated processes.
- Led React Native mobile development efforts to optimize app performance and engage users effectively.

Development Engineer

Meridian Group, Bogotá, Colombia

August 2015 - December 2016

- Designed and implemented web application architectures using Docker and AWS, ensuring scalability and reliability.
- Engaged in full-stack web development utilizing Node.js (Loopback, Express.js, Parse server), Angular.js, D3.js, MongoDB, React.js, HTML5, CSS3, Gulp.js, and Webpack.

Development Analyst

Banco de Occidente, Bogotá, Colombia

February 2015 - August 2015

- Led the planning, design, and development of impactful technology projects in the West Bank, showcasing expertise in project management and cross-functional collaboration.

Frontend Developer

Sena, Bogotá, Colombia

November 2013 - December 2014

- Developed web solutions tailored for visually and hearing-impaired individuals, utilizing HTML5, CSS3, jQuery, and Bootstrap.
- Engineered interactive web games to enhance the learning experience of virtual courses for SENA Institution, showcasing a creative approach to education and technology.

Education

Specialist in Software Engineering

Universidad Distrital Francisco José de Caldas, Bogotá, Colombia

January 2015 – January 2016

- Advanced Software Engineering specialization focusing on cutting-edge methodologies, tools, and practices. Enhances skills in software design, development, testing, and deployment. Explores topics such as software architecture, cloud computing, DevOps, and Agile methodologies. Equips professionals to tackle complex challenges and create robust, scalable software solutions.

Bachelor in System Engineering

Universidad de Cundinamarca, Chía, Colombia

January 2019 – April 2014

- *Comprehensive Systems Engineering program offering a multidisciplinary curriculum that integrates technology, management, and problem-solving skills. Equips graduates with a deep understanding of system analysis, design, and implementation. Focuses on software development, network administration, database management, and project management. Prepares individuals for versatile roles in designing and optimizing complex systems.*

Skills

Expert (★★★★★): Javascript, Typescript, React.js, Redux, Storybook, Html, Css, Git, styled-components.

Advanced (★★★★☆): SQL, noSQL, Next.js, Angular, Node.js, MongoDB, Python

Familiar (★★★★☆☆): AWS, svelte.