

ANDRÉS F MOVILLA OBREGÓN

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SENIOR FULL-STACK SOFTWARE ENGINEER

PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 6+ years of experience delivering production-grade web, mobile, and service-oriented systems across B2B SaaS and product-focused environments. Proven track record of end-to-end ownership: identifying gaps in the product, proposing solutions, and shipping them without being asked. Experienced leading engineering teams, mentoring engineers at all levels, driving architecture decisions, and building features that directly impact customer experience, retention, and operational workflows. Comfortable across the full stack — React, NestJS, Node.js, TypeScript — with hands-on experience integrating AI/LLM tools, third-party services, and automating workflows to improve platform reliability.

AREAS OF EXPERTISE

Category	Technologies
Frontend & Mobile	TypeScript, React, Next.js, React Native, Tailwind CSS, Redux, Vue.js, HTML, CSS, Sass, PWA
Backend	Node.js, NestJS, Express.js, Python, Java, C#, REST/RESTful APIs, WebSockets, SQL, PostgreSQL, MongoDB, Redis
Infrastructure & Tooling	Docker, CI/CD, GitHub Actions, Azure DevOps, Git, Bitbucket, multi-environment deployments
AI & GenAI	OpenAI GPT-4, Whisper, LangChain, Prompt Engineering, LLM Integration, Cursor, GitHub Copilot
Methodology	Agile/SCRUM, Kanban, Jira, Code Review, Technical Documentation, Cross-functional Collaboration

PROFESSIONAL EXPERIENCE

SENIOR FULL-STACK SOFTWARE ENGINEER, FormPiper, *Remote* | July 2025 - April 2026

- Took full ownership of the configuration value management UI — redesigned and rebuilt it from scratch with no spec or direction, improving workflows for customers, support staff, and developers alike.
- Implemented multiple third-party webhook and service integrations, handling the full lifecycle from contract through error handling and production support.
- Participated in a database migration from MongoDB to PostgreSQL, improving query reliability and data integrity.
- Improved frontend performance, reducing load times and enhancing end-user experience.
- Generated operational and business reports from database data; supported production stability and incident resolution.
- Conducted code reviews to maintain engineering standards across the team.

Technologies used: TypeScript | React | NestJS | PostgreSQL | MongoDB | REST APIs

SENIOR FULL-STACK ENGINEER, BairesDev, *Barranquilla, COL* | April 2025 - Present

- Proposed and led the CRA → Vite frontend migration within my first week — identifying a production risk unprompted, getting alignment, and executing the full migration including a complete overhaul of the environment variable and config system.
- Led a subsequent Vite → Next.js migration as part of a platform consolidation, ensuring zero regressions across both transitions.
- Decomposed a monolithic backend into 8 well-defined services, improving maintainability, developer experience, and the platform's cybersecurity posture.
- Built and shipped a fully functional toolbar feature end-to-end, owning implementation across frontend and backend.
- Integrated third-party APIs and SDKs including WebSockets, RTMP, and live video/audio streaming into a production legal proceedings platform.
- Managed multi-environment builds, CI/CD pipelines, and deployments across production and non-production environments.

Technologies used: TypeScript | React | Next.js | Express.js | WebSockets | RTMP | REST APIs | Tailwind CSS

FULL-STACK SOFTWARE ENGINEER SPECIALIST, ScotiaTech, *Barranquilla, COL* | November 2023 - March 2025

- Led feature development for a large-scale financial platform serving enterprise clients across Latin American markets.
- Developed optimized stored procedures that improved server-side query performance and reduced load times.
- Managed multi-environment CI/CD pipelines and provided production and non-production environment support.

Technologies used: TypeScript | React | Next.js | Express.js | SQL | REST APIs | Tailwind CSS

SENIOR FULL-STACK WEB DEVELOPER, TECH LEAD, Overnights, *Barranquilla, COL* | September 2022 - October 2023

- Built the web platform from the ground up as a core contributor from the project's earliest weeks, working across the full stack on a short-term rental marketplace competing with Airbnb.
- Owned the search and filtering system end-to-end — frontend UI, backend query logic, and API design — delivering the core discovery experience for rental listings.
- Grew into the Tech Lead role, managing a team of 10+ developers: delivery timelines, code reviews, and hands-on mentorship.
- Initiated and executed a full web-to-React Native migration unprompted, owning architecture design through app store release and presenting the working app to the C-suite.
- Led cross-functional feature delivery, coordinating across teams to meet shared milestones.

Technologies used: TypeScript | React | Next.js | React Native | Express.js | REST APIs | Tailwind CSS

TEACHING & MENTORSHIP

PART-TIME UNDERGRADUATE PROFESSOR — BACKEND & FRONTEND DEVELOPMENT, Universidad del Norte, *Barranquilla, COL* | February 2022 - Present

- Design curriculum, assignments, and evaluations for backend and frontend development courses.
- Mentor students through lectures, office hours, and project feedback — translating complex technical concepts into accessible, practical knowledge.
- Evaluate student progress and continuously adapt instructional materials to align with evolving industry standards.

Technologies used: REST APIs | MongoDB | Express.js | Node.js | React

SELECTED PROJECTS

Conversational AI Flow Dashboard, *Freelance*

- Built a visual flowchart editor enabling non-technical product teams to configure LLM-driven user journeys, in-app routing logic, and behavioral flows without code changes.
- Designed as a configurable AI behavior layer, with full ownership from architecture through deployment.

Auto-Chef, *AI-Augmented Recipe Management Platform*

- Designed a multimodal AI pipeline using GPT-4, Whisper, OpenCV, and Tesseract OCR for automated recipe ingestion from web and social media content, achieving a **97% reduction in manual processing time**.
- Architected a three-tier system: React Native/Expo mobile app, Node.js REST API, and Python AI pipeline; deployed with Docker Compose, Caddy reverse proxy, and token-based auth.

EDUCATION

Master's in Systems Engineering, Universidad del Norte, *Barranquilla, COL*

Bachelor's in Systems Engineering, Universidad del Norte, *Barranquilla, COL*

C2 Proficient, EF SET, *English Proficiency Certificate*