Andrés Felipe Suárez Villegas

Senior Software & Solutions Engineer

WebPage **GitHub** **LinkedIn** **Stack Exchange Codealike Email Instagram** | Colombia · Remote

Professional Summary

Senior Full-Stack Engineer with 9+ years of experience building secure, scalable platforms across SaaS, Fintech, Insurtech, AI, Marketing Automation, GIS, and HealthTech. Backend-leaning engineer specializing in Node.js/TypeScript and AWS cloud architecture.

Experienced in leading production systems within SOC 2–regulated environments, designing centralized data platforms, and supporting investor technical due diligence. Proven ability to mentor engineers, drive architectural decisions, and deliver reliable systems across cross-functional and multicultural teams. Seeking a long-term product-focused role centered on performance, system design, and sustainable engineering practices.

Key Achievements

- **Technical Due Diligence & Investment Support:** Served as technical lead during investor audits, successfully navigating deep technical reviews and strengthening platform credibility.
- **Platform Hardening (SOC 2):** Reduced security vulnerabilities by 90% through infrastructure redesign, AWS security controls, and secure SDLC governance.
- **Cloud Cost Optimization:** Achieved ~30% AWS cost reduction via architectural right-sizing, observability improvements, and CI/CD optimization.
- **AI & Automation Integration:** Designed and implemented enterprise-grade AI workflows using AWS Bedrock, LangChain, and multi-model orchestration strategies.
- **Global Engineering Impact:** Delivered 30+ production systems across 11 countries and 15 industries, demonstrating strong cross-domain adaptability.
- **Technical Recognition:** Recognized by **Codealike** for efficiency and innovation in software development patterns and high-velocity engineering. (**interview**)

Professional Experience

Full Stack Engineer (Contract) Turnstile · Sept 2025 – February 2026 · Remote

- **MVP to Market-Fit:** Partnering with technical founders to build a category-defining SaaS product, translating complex business logic into a scalable React/Node.js stack.
- **Third-Party Orchestration:** Engineering mission-critical integrations with Stripe, Twilio, Segment, and Salesforce to drive product functionality and user growth.
- **Backend Architecture:** Designing robust REST/GraphQL APIs and PostgreSQL schemas optimized for high-velocity startup iterations and system reliability.

Senior Full-Stack Engineer (Contract) HireWorks — Client: Benekiva/Ro · Apr 2025 – Sept 2025 · Remote

- **Lifecycle Architecture:** Architected complex patient journey eventing for Ro, utilizing **Braze**, webhooks, and HTML templates to deliver automated multi-channel experiences.
- **Data-Driven Growth:** Developed real-time dashboards and data tools to monitor marketing KPIs, enabling precision targeting and segmentation for lifecycle channels.
- **Platform Hardening:** Acted as SME for reliability and incident response, implementing secure AWS architectures (Lambda, RDS, S3) aligned with SOC 2 Type II compliance.

Senior Software Engineer (AI Specialist) Usermuse.AI · Oct 2024 – Jan 2025 · Remote

- **AI Orchestration:** Developed an intelligent requirement-gathering engine using **LangChain**, focusing on multi-model workflows, prompt deduplication, and automated re-prompting logic with help of Vellum.
- **Product Insights:** Built full-stack features using React and Firebase to transform raw customer conversations into structured, actionable product roadmap signals.
- **High-Velocity Prototyping:** Integrated OpenAI, Anthropic, and Gemini APIs to accelerate discovery phases while maintaining enterprise-grade code quality.

Lead Full-Stack Developer / Engineering Lead Brooklyn Vendor Assurance · Dec 2018 – Apr 2025 · Remote

- **Investment & Due Diligence:** Served as **Technical Lead during investor audits**; successfully navigated deep-dive technical due diligence to secure funding rounds.
- **GenAI Pioneering:** Led the integration of generative AI workflows using **AWS Bedrock** and **Anthropic Claude**to automate enterprise vendor risk assessments.
- **Team Leadership:** Acted as core maintainer and lead for the dev team, establishing SDLC governance and mentoring engineers to improve shipping velocity.
- **Infrastructure Security:** Orchestrated heavy AWS environments using CDK and CloudFormation; implemented **AWS GuardDuty** and KMS, achieving a 90% reduction in vulnerabilities.

Strategic Consulting & Embedded Engineering Roles

Kuno Digital — Senior Technical Consultant (Embedded)

2023 · Panama · Marketing Automation

- Served as primary technical authority for marketing automation and system integrations.
- Architected Make (Integromat), WhatsApp, SalesManago, and Kommo CRM integrations.
- Mentored junior technical staff and marketing operations teams.
- Contributed to integration architecture and technical governance discussions.

Atentamente — Platform Architect & Data Engineering Consultant

2023 · Mexico · HealthTech

- Led consolidation of fragmented data sources into a centralized AWS-based platform.
- Designed PostgreSQL infrastructure using Amazon RDS to establish a single source of truth.
- Built internal data management dashboard using Strapi.
- Developed migration scripts to normalize and transfer legacy datasets.
- Participated in architecture committee decisions.

Proaxdata — Lead GIS Solutions Architect

2023 · Mexico · Geospatial / Mining

- Designed geospatial visualization platform for mining and real estate clients.
- Built automation workflows using Google Apps Script and Sheets.
- Implemented Mapbox performance optimizations.
- Advised team on scalable GIS architecture strategies.

Pontificia Universidad Javeriana — Mobile Application Stabilization Engineer

2023 · Colombia · Education Technology

- Joined project mid-development following departure of lead engineer.
- Resolved critical bugs, implemented missing features, and improved authentication flows with Biometric on Android and iOS.
- Addressed UI inconsistencies and stabilized application for production readiness.
- Ensured continuity during leadership transition phase.

Klazia — AWS & Strapi Migration Consultant

2022 · Colombia

- Led Strapi upgrade and backend restructuring.
- Refined AWS infrastructure to improve performance and reduce costs.
- Applied FinOps practices to optimize cloud spend.

Cinekomuna — Lead Backend Developer / DevOps Consultant

2022 · Mexico

- Refactored backend services and optimized MongoDB indexing.
- Improved observability and AWS infrastructure reliability (EC2, S3, CloudWatch).
- Strengthened deployment processes and system resilience.

Factoring Abogados (SaaS) — AWS & Multi-Tenant Architecture

2022 · Colombia

- Designed secure multi-tenant judicial case automation platform.
- Implemented AWS services (Amplify, Cognito, Lambda, SNS, RDS).
- Built event-driven processing and secure authentication layers.

TODOSURF — Web & GIS Engineer

2019 · Spain

- Developed real-time surf conditions web application using React and Leaflet.
- Integrated multiple public APIs for environmental data aggregation.
- Designed interactive GIS map interface with location-based filtering.

Technical Skills

Backend Engineering

- Node.js (9+ yrs), TypeScript (expert-level)
- Express, NestJS
- RESTful API design, GraphQL
- Microservices & modular monolith architectures
- Event-driven systems (SNS, SQS)
- Background jobs & async processing
- Data migrations & ETL scripting
- Authentication (JWT, OAuth2, Cognito, SSO)

Cloud & Infrastructure (AWS-Focused)

- AWS Lambda, API Gateway
- Amazon RDS, DynamoDB
- S3, CloudFront
- SNS, SQS
- Cognito
- GuardDuty, IAM, KMS
- AWS CDK & CloudFormation (Infrastructure as Code)
- CI/CD with GitHub Actions
- Docker
- Cost optimization (FinOps practices)
- Observability (CloudWatch, structured logging)

AI & Automation

- AWS Bedrock
- LangChain
- Prompt engineering & structured output design
- Multi-model orchestration (OpenAI, Anthropic, Gemini)
- AI workflow evaluation & hallucination mitigation strategies

Frontend

- React (8+ yrs)
- Next.js
- React Native
- State management (Redux, Context API)
- GIS visualization (Mapbox, Leaflet)
- Data visualization (D3.js)

Data & Architecture

- PostgreSQL & MySQL (advanced schema design & indexing)
- MongoDB
- Data modeling & normalization
- Centralized data platform design
- Single source of truth architectures
- Multi-tenant SaaS systems
- High-volume production systems

Security & Governance

- SOC 1 / SOC 2 Type II environments
- Secure SDLC practices
- Technical due diligence support
- Role-based access control (RBAC)
- Encryption at rest & in transit

Education

Technologist in Information Systems — Universidad del Valle · 2015–2021
English Proficiency (B1+) — Centro Cultural Colombo Americano · 2014–2015