



## CONTACT

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Pereira, Colombia · Remote

## CORE STACK

Java · Spring Boot · Quarkus  
Node.js · NestJS · Next.js  
Angular · React · Vue

## SKILLS

### LANGUAGES

Java, TypeScript / Node.js, JavaScript,  
Kotlin, Go

### BACKEND

Spring Boot, WebFlux, Quarkus, Apache  
Camel, Vert.x, Node.js, NestJS

### FRONTEND

Angular, React, Vue, Next.js, TypeScript

### DATA & STREAMING

Kafka (Confluent), Debezium, GCP Pub/Sub,  
PostgreSQL, Oracle, MongoDB, Redis,  
DynamoDB

### CLOUD & DEVOPS

AWS, GCP, Azure, OpenShift, Kubernetes,  
Docker, Terraform, GitHub Actions,  
Keycloak, Kong

### OBSERVABILITY

OpenTelemetry, Prometheus, Grafana,  
Loki, Tempo

### QUALITY & TESTING

JUnit, Testcontainers, Cypress, K6, Gatling,  
Chaos Engineering, SonarQube

### ARCHITECTURE

Microservices, Event-Driven, CQRS,  
Hexagonal,DDD, Serverless, ADRs

# ANDRES FELIPE ZAPATA

## SENIOR SOFTWARE ENGINEER · FULL STACK JAVA & NODE.JS

Full stack software engineer with **10+ years** of experience building platforms that serve **700,000+ users** across Colombia and Latin America. Core stack: **Java** (Spring Boot, Quarkus) and **Node.js / TypeScript** (NestJS) on the backend; **Angular, React** and **Vue** on the frontend; **Next.js** for full stack applications; deployed on **AWS** and **Kubernetes**. Designs microservice, integration and **Kafka event-streaming** architectures, and leads engineering teams in **payments, transportation, logistics and banking**.

## KEY ACHIEVEMENTS

- Member of the team that built **IP/REV** (Electronic Vehicle Toll Collection Interoperability) for Colombia's **Ministry of Transport**, on an **event-driven, highly concurrent**, high-throughput transaction architecture.
- Integrated shippers and carriers** such as **Grupo Nutresa** and **Rápido Ochoa** with the **RNDC** (National Cargo Dispatch Registry): consignment notes, electronic cargo manifests and proof-of-delivery records.
- Cut latency by 98%** (5 s → 100 ms at 10,000 req/s) in mission-critical microservices at **Banco de la República** (Colombia's central bank) using WebFlux, Redis and MongoDB.
- Reduced time-to-market by 40%** with a Developer Experience platform (Backstage, AWS Service Catalog, service archetypes) presented to the C-suite.

## EXPERIENCE

### Technical Lead

Mar 2024 – Present

**Quind** · Remote · Client: Flypass, electronic toll & parking payments · FinTech / Transportation

- Design **microservice and data-streaming** architecture for the payments and mobility platform (Spring Boot, Kafka, CQRS, AWS).
- Lead the **e-invoicing, customer service centers** and **memberships** workstreams: solution design, ADRs, code reviews and quality gates (JaCoCo, SonarQube).
- Drive the migration of legacy components to **Quarkus + GraalVM, Java 21 and Virtual Threads**.
- Led a **Developer Experience** initiative (Backstage, AWS Service Catalog, archetypes) that cut **time-to-market by 40%**.

### Senior Red Hat Integration Engineer

Jun 2026 – Present

**Avianca** · Remote · Contractor via Assist · Airline / Payments

- Integrate Avianca's **payments core** with Latin American payment gateways and methods such as **DEUNA** and **Wompi**.
- Design the integration architecture on the **Red Hat** stack, using **Quarkus** and **Apache Camel** to connect the core with each payment provider.

### Full Stack Developer & Tech Lead

Dec 2025 – Jun 2026

**Fiscalía General de la Nación** · Remote · Contractor · Public sector (Colombian Attorney General's Office)

- Designed and built three core systems: **Extradition & Capture, Victim & Witness Protection** and **Private Prosecution**.
- Full stack** development with **Node.js / TypeScript (NestJS)**, **React** and Oracle PL/SQL; deployed to **OpenShift** through GitHub Actions pipelines.

### Senior Integration Developer

Oct 2025 – Jan 2026

**CELSIA** · Remote · Contractor · Energy utility

- Led the migration of the integration bus from **IBM App Connect** to **on-premise Kubernetes** using Quarkus, Apache Camel and Kafka.
- Designed and documented the migration strategy for mission-critical **power distribution metering** systems.
- Implemented end-to-end observability with **Grafana, Loki and Tempo**.

LANGUAGES

Spanish (native) · English (B2, upper intermediate)

TRANSPORTATION DOMAIN

RNDC, electronic cargo manifests, consignment notes, proof of delivery, SICE-TAC, IP/REV, RUNT, electronic tolling (TAG), e-invoicing

APPLIED AI

AI-assisted development with coding agents (Claude Code), with a strong focus on security and confidentiality.

PRE-SALES

Requirements discovery with clients, solution design and architecture decision records (ADRs).

Software Architect & Developer

Jul 2020 – Present

Independent Contractor · Remote · Freelance · Freight transportation, logistics, banking

- **RNDC integration** (Colombian Ministry of Transport) for shippers and carriers such as **Grupo Nutresa** and **Rápido Ochoa**: consignment notes, **electronic cargo manifests** and **proof-of-delivery records**, with upfront data validation and full traceability of every submission.
- **Event-driven** architecture for the freight dispatch lifecycle (order → consignment note → manifest → proof of delivery) and freight payment reconciliation.
- Modernized legacy Oracle/Java systems with the **Strangler Fig** pattern and **CDC** (Debezium + Confluent); migrated LDAP to **Keycloak / OAuth2**.
- Tuned **Kafka** clusters (partitioning, replication, compression) and set up disaster recovery with **MirrorMaker 2**; observability with OpenTelemetry, Prometheus and Grafana.

Senior Software Developer

Jul 2023 – Mar 2024

OLJ Solutions · Hybrid, Medellín · Projects: IP/REV and RUNT · Transportation

- Full stack development of **RUNT** (National Transit Registry) services with **Java**, **Node.js**, **Spring WebFlux**, Quarkus, Kafka, Angular and React on **AWS** (Lambda, Docker).
- Built **IP/REV** for the Ministry of Transport: interoperability between toll operators and TAG providers for nationwide electronic toll collection.
- Designed **reactive, event-driven** architecture for distributed microservices; applied TDD and code reviews.

Technical Lead · Software Engineer

Feb 2021 – Jul 2023

INDRA Colombia · Remote · Client: Banco de la República (central bank) · Banking

- Led **two teams of four developers** building Java 8–17 microservices (Spring Cloud, GCP Pub/Sub, Apigee, AWS, DynamoDB).
- **Cut latency by 98%** (5 s → 100 ms at 10,000 req/s) in mission-critical microservices using WebFlux, Redis and MongoDB.
- Resolved transactional integrity issues by enforcing ACID guarantees, improving data consistency by **90%**; launched a Coding Dojo (Jenkins, SonarQube, Kafka).

EARLY CAREER

Software Developer, Emtelco (Tigo-Une)

2020 – 2021

ETL/ELT pipelines for telecom Big Data (Java, C#, PL/SQL).

IT Technician, Estatal de Seguridad

2019 – 2020

Database optimization and application support.

Freelance Developer, iKono Telecomunicaciones

2018 – 2019

Odoo ERP/POS implementation (invoicing and inventory).

IT Support Technician, Atento

2017

ITIL-based service desk for B2B clients.