

Alejandro Valencia Rivera

Senior Full Stack Developer | Backend-First | Java, Python, AWS, Data Engineering

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Open to senior backend, platform engineering, and tech lead opportunities.

PROFESSIONAL SUMMARY

Senior full stack developer with 7+ years of experience across banking, fintech, CRM, cloud, and data-intensive environments. Strongest value comes from backend architecture, hands-on delivery, integrations, and technical leadership.

Java / Spring Boot, Python, AWS, Terraform, microservices, ETL, core banking, CRM integrations, and production delivery. Approximately 80% backend and 20% frontend, with a strong fit for senior backend, platform, and technical lead roles.

CORE SKILLS

- **Java / Spring Boot** - Backend services, integrations, core banking initiatives, REST APIs, and production migrations.
- **Python** - Microservices, domain modeling, ETL, reporting, automation, Flask, Django, and FastAPI.
- **Architecture & Integrations** - REST, SOAP, SFTP, API Gateway, mediation layers, JWT security, DDD, and enterprise workflows.
- **AWS / Terraform / CI-CD** - Cloud-native delivery with Terraform, Jenkins, Docker, Kubernetes, automation, and rollout support.
- **SQL, NoSQL, ETL, BI** - Oracle, PostgreSQL, MySQL, SQL Server, MongoDB, DocumentDB, DynamoDB, Power BI, and ETL optimization.
- **Frontend Support Delivery** - React and Angular exposure for end-to-end delivery, while keeping backend engineering as the main specialization.

TECHNICAL SKILLS

Backend & APIs : Java, Spring, Spring Boot, JEE, Python, Flask, Django, FastAPI, Node.js, REST, SOAP, Microservices, DDD, JWT, SFTP Integrations

Frontend : React, Angular, HTML, CSS, Responsive Delivery Support

Cloud & DevOps : AWS, Azure, GCP, Terraform, Jenkins, Docker, Kubernetes, CloudFormation, API Gateway, Lambda, Step Functions, ECS, EKS, EventBridge, S3, SQS, CloudWatch

Data & Databases : Oracle 11g/12c, PL/SQL, PostgreSQL, MySQL, SQL Server, MongoDB, Amazon DocumentDB, DynamoDB, IBM DataStage, Pentaho, AWS Glue, Azure Data Factory, GoAnywhere, Power BI

Delivery Tooling : Git, GitHub, Bitbucket, SVN, Postman, SoapUI, JMeter, Jira, Confluence, Miro, Mural, ClickUp, Scrum Master, Product Owner, IntelliJ IDEA, PyCharm, Eclipse

CRM & AI : Salesforce Marketing Cloud, ChatGPT, Copilot, Gemini, Ollama, Prompt Engineering

PROFESSIONAL EXPERIENCE

Technical Lead, Backend & Data Engineering

CINTE GROUP S.A. (Experian Outsourcing) | Cali, Colombia | Jun 2024 - Dec 2025

Led and contributed to high-impact programs across CRM integration, cloud architecture, database modernization, transaction monitoring, and payment optimization for enterprise delivery teams.

- Led the full lifecycle of a Salesforce Marketing Cloud implementation, including API and SFTP integrations with AWS and migration of internal customer data into contactability models.
- Led the migration from on-premises MongoDB to Amazon DocumentDB and delivered the AWS infrastructure using Terraform, aligned with governance and security requirements.
- Built a large AWS-based architecture and the initial microservices backbone behind API Gateway, using services such as Lambda, Step Functions, ECS, EKS, Glue, EventBridge, SQS, S3, and CloudWatch.
- Implemented the Ascend transaction monitoring and BI solution and delivered a national encryption plus anonymization model to protect customer identity and enable secure cross-team data exchange.

Keywords: CRM Integration, DocumentDB Migration, Payment Optimization, API Delivery, Salesforce Marketing Cloud

Software Consultant

Independent | Cali, Colombia | Jan 2024 - Jun 2024

Delivered backend, database, and frontend modernization for the Colombian Ministry of Transport, upgrading a critical public-facing payment workflow on top of Java, Oracle, and React.

- Modernized the traffic fines payment platform for the Colombian Ministry of Transport, combining backend migration, API redesign, and frontend delivery for a critical public-facing workflow.
- Migrated the payment module from Java 8 to Java 21, documented the target architecture, and created a new REST API that established the technical foundation for future payment-processing modules.
- Improved Oracle 13c query performance by 40% in payments and reporting, standardized shared connectivity modules, and delivered a React admin panel with secure authentication, encryption, Redis-backed session support, and caching.

Keywords: Java Migration, REST API, Database Optimization, React Development

Backend Software Engineer

Bold | Cali, Colombia | Aug 2023 - Dec 2023

Supported backend systems and cloud delivery for a new banking-product application, combining Python, Java, DDD, and production support for low-balance accounts and microloans.

- Delivered backend services for low-balance accounts and microloans in the Bold CF application.
- Developed Python and Java domain models across multiple microservices following Domain-Driven Design principles and supported production environments backed by DynamoDB.
- Worked with cloud-native architectures across AWS, GCP, and Azure, combining SQL and NoSQL persistence, API patterns, technical documentation, and test design for a reliable banking product.

Keywords: DDD and Test Automation, REST APIs, Python Delivery, Java Services, Cloud-Native Banking

Tech Lead & Senior Developer Analyst

Banco Union | Cali, Colombia | Mar 2022 - Aug 2023

Led a strategic technology and compliance program that helped enable the bank operating-license process while modernizing the integration, reporting, and ETL ecosystem behind a new core banking platform.

- Led a strategic technology and compliance program that supported the bank operating license process and the rollout of a new Core Banking platform.
- Built the inter-application communication backbone from scratch, including an API Gateway and mediation layer with more than 94 REST and SOAP services plus a translation API for legacy-to-modern integration.
- Standardized more than 130 ETL jobs and reports, produced technical standards for regulatory and audit requirements, and contributed ETL modernization using AWS Glue, Azure Data Factory, and GoAnywhere.
- Delivered risk-profile and identity-validation capabilities for SARLAFT, optimized Pentaho and GoAnywhere pipelines, improved WildFly stability, and supported reporting for operations and collections.

Keywords: Core Banking, API Gateway, REST & SOAP, ETL Modernization, AWS and Azure

Senior Developer Analyst

Banco de Occidente | Cali, Colombia | Jan 2021 - Jan 2022

Built internal applications, optimized ETL flows, and strengthened data protection for production banking operations, while also contributing to Wompi integration and modernization initiatives.

- Built four internal applications, two in Java and two in Python with Flask and Django, improving reporting and decision-making by 30% to 40% for business units.
- Optimized five production ETL pipelines involved in the loan portfolio closing process, reducing close time by 1.5 hours.
- Designed and implemented the national encryption model and an anonymization replica database, strengthening customer identity protection and secure information exchange.
- Contributed to Wompi integration, improved FLEXCUBE data processing, and acted as an AWS, Terraform, and Jenkins reference for modernization and migration initiatives.

Keywords: Reporting Apps, ETL Optimization, Encryption Model, Wompi Integration, AWS and Terraform

Professional Analyst

Banco de Occidente | Cali, Colombia | May 2019 - Dec 2020

Owned migration architecture and delivery coordination for active loan portfolio products moving into Oracle FLEXCUBE, combining ETL work, technical leadership, and migration-rehearsal planning.

- Designed the full technology architecture to migrate an active loan portfolio product to FLEXCUBE.
- Built 15 ETL pipelines with IBM DataStage and optimized ODS queries and ETL processes to improve data management and decision-making.
- Led an 11-person team as Scrum Master and contributed to a high-impact migration with 99.8% success, covering 39,000 customers and 80,000 loans.

Keywords: Oracle FLEXCUBE, Core Banking Migration, Technical Leadership, ETL and DataStage, ODS and Reporting

Data Analyst

Innovar Web | Cali, Colombia | Jan 2018 - Apr 2019

Improved transactional performance and data quality by redesigning database structures, modeling latency behavior, and optimizing the application data layer for better throughput.

- Normalized the application database to Third Normal Form and materially improved system performance.
- Built a mathematical model that predicted database latency with 90% accuracy and helped identify low-performance conditions.
- Raised daily transactions by 30% through database optimization and contributed to improved application stability and user experience.

Keywords: SQL Optimization, 3NF Modeling, Latency Analysis, Performance Tuning

EDUCATION

Systems Engineer

Universidad del Valle | Cali, Colombia | 2014 - 2019

- Graduated with strong academic results and ranked among the top performers in the national ECAES exam for the Systems Engineering program.

LANGUAGES

- **Spanish** : Native
- **English** : Upper-intermediate to advanced (B2-C1)

SELECTED PUBLIC PROJECTS

Terraform Jenkins on DigitalOcean

Infrastructure as Code project that provisions a Jenkins server on DigitalOcean with persistent storage, Nginx, DNS, firewall rules, Docker, and HTTPS.

Stack: Terraform, Jenkins, Docker, Nginx, Linux, DigitalOcean

Repository: <https://github.com/AlejoValenciaR/droplet-jenkins>

Live URL: <https://www.jenkinsnauthsoftwareprivate.app>

Azure VM Terraform + LocalStack

Single-server Azure environment with networking, DNS, Docker, LocalStack, Nginx, and custom domains for repeatable cloud-emulation experiments.

Stack: Terraform, Azure, LocalStack, Docker, Nginx, DNS

Repository: <https://github.com/AlejoValenciaR/azure-docker-vm-terraform>

Live URL: https://localstack.nauthappstest.tech/_localstack/health

LocalStack AWS Automation Lab

Jenkins-based automation lab that deploys AWS-like resources into LocalStack with Terraform or AWS CLI and supports reusable deployment pipelines.

Stack: Jenkins, Terraform, AWS CLI, LocalStack, Azure Blob State, Shell Automation

Repository: <https://github.com/AlejoValenciaR/localstack-terraform-jenkins>

Live URL: <https://nauthappstest.tech>

Spring Boot Multi-App Platform

Spring Boot platform that serves multiple web applications from one backend, organizing routing, templates, static assets, and shared presentation logic.

Stack: Java, Spring Boot, Thymeleaf, HTML, CSS, Web Routing

Repository: <https://github.com/AlejoValenciaR/hello-spring>

Live URL: <https://alejandrovalencia.site/>