

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.
- **Angular / TypeScript** - Angular-based internal operational frontends integrated with Java and Python services, including Amazon EKS pod and deployment visibility dashboards, while keeping backend and cloud engineering as the core specialization.

TECHNICAL SKILLS

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

Frontend : Angular, TypeScript, React, 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, Angular-based internal operations tooling, database modernization, transaction monitoring, and secure enterprise delivery for large-scale 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.
- Delivered an Angular + TypeScript internal operations console backed by AWS services to expose Amazon EKS pod inventories, deployment status, and cluster visibility for engineering and support teams.
- 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, Angular Frontend Delivery, AWS / EKS Operations, DocumentDB Migration, 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/>