Alejandro Valencia Rivera

SENIOR FULL STACK DEVELOPER | BACKEND-FIRST | JAVA, PYTHON, AWS, DATA ENGINEERING

PERSONAL INFO

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LOCATION
Cali, Colombia

QUICK FIT

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.

TOP STRENGTHS

Java / Spring Boot — **96%**

Python — **91%**

Architecture & Integrations — **93%**

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

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

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.

7+
Years delivering enterprise software

80 / 20
Backend / frontend focus

Java + Python
Primary backend stack

Banking + Cloud
Core domain specialization

PROFESSIONAL SNAPSHOT

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.

Senior full stack developer with a strong backend orientation, specialized in Java / Spring Boot, Python, enterprise integrations, cloud architecture, data engineering, and modernization programs for banking and financial services.

WHAT I BUILD

Java and Python Delivery
Enterprise-grade backend implementation with Spring, Hibernate, Jakarta EE, Flask, FastAPI, and Django.

Quality Assurance
Testing, code review discipline, and pragmatic engineering standards that keep releases safe and maintainable.

Patterns and Architecture
SOLID, design patterns, migration planning, and clean architecture decisions aligned with real business constraints.

REST, SOAP, and Integrations
API-first delivery for banking, CRM, ETL, and cross-platform integrations that need performance and reliability.

DELIVERY DOMAINS

Core Banking Platforms
Experience shaping regulated banking platforms, migration programs, mediation layers, ETL modernization, and production support.

CRM and Contactability
Hands-on work connecting Salesforce Marketing Cloud with enterprise backends, governed data flows, and secure operational pipelines.

Modernization Programs
Java migration, query optimization, React admin delivery, secure authentication, and cloud rollout for legacy-to-modern transitions.

Public Portfolio Labs
Infrastructure labs built with Terraform, Jenkins, LocalStack, and Spring Boot to make the platform work visible outside enterprise environments.

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PROFILE DEPTH, CREDENTIALS, AND SKILL EVIDENCE

EDUCATION

Systems Engineer

Universidad del Valle | 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)

AVAILABILITY

Certified Scrum Master and Product Owner, open to senior backend, platform, and technical lead opportunities.

PROFESSIONAL PROFILE

Senior full stack developer with a strong backend orientation, specialized in Java / Spring Boot, Python, enterprise integrations, cloud architecture, data engineering, and modernization programs for banking and financial services.

Brings end-to-end delivery ownership from planning and solution design through development, testing, release, production rollout, and post-production support. The profile combines hands-on coding with architecture, migration strategy, DevOps enablement, and cross-functional technical leadership.

Key achievements include core banking migration, API gateway and mediation layer design, Salesforce Marketing Cloud implementation, on-premises to AWS modernization, ETL optimization, encryption and anonymization initiatives, and delivery of data and reporting platforms with measurable business impact.

Scrum Master and Product Owner certified, with a delivery style centered on quality, security, traceability, and pragmatic execution.

CORE SKILLS

Java / Spring Boot   **7+ YEARS**

Backend services, integrations, core banking initiatives, REST APIs, and production migrations.

Python   **6+ YEARS**

Microservices, domain modeling, ETL, reporting, automation, Flask, Django, and FastAPI.

Architecture & Integrations   **BACKEND**

REST, SOAP, SFTP, API Gateway, mediation layers, JWT security, DDD, and enterprise workflows.

AWS / Terraform / CI-CD   **CLOUD**

Cloud-native delivery with Terraform, Jenkins, Docker, Kubernetes, automation, and rollout support.

SQL, NoSQL, ETL, BI   **DATA**

Oracle, PostgreSQL, MySQL, SQL Server, MongoDB, DocumentDB, DynamoDB, Power BI, and ETL optimization.

Frontend Support Delivery   **FULL STACK**

React and Angular exposure for end-to-end delivery, while keeping backend engineering as the main specialization.

WORKING STYLE

Hands-on Ownership

Comfortable leading architecture and still shipping the core modules, automation, and integration paths personally.

Business-Driven Engineering

The strongest work has come from solving core banking, CRM, reporting, and platform modernization problems under production pressure.

Cloud and Automation Mindset

Terraform, CI/CD, containerization, and cloud-native service composition are used to reduce delivery friction and improve reliability.

AI-Assisted Analysis

Uses LLMs and prompt engineering to accelerate documentation, analysis, and repetitive artifact creation while preserving traceability and quality.

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EXPERIENCE PART ONE: CLOUD DELIVERY AND MODERNIZATION

FOCUS AREAS

CRM Integration   DocumentDB Migration

Terraform   API Delivery

Java 21 Migration   React Admin

Recent delivery work centers on CRM integration, database modernization, consulting, and product engineering where architecture and implementation moved together.

PROFESSIONAL EXPERIENCE

Recent roles combine consulting, cloud modernization, backend delivery, and architecture ownership across enterprise and public-facing systems.

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.

CRM INTEGRATION   DOCUMENTDB MIGRATION   PAYMENT OPTIMIZATION   API DELIVERY

SALESFORCE MARKETING CLOUD

- 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.

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.

JAVA MIGRATION   REST API   DATABASE OPTIMIZATION   REACT DEVELOPMENT

- 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.

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.

DDD AND TEST AUTOMATION   REST APIS   PYTHON DELIVERY   JAVA SERVICES

CLOUD-NATIVE BANKING

- 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.

RECENT DELIVERY SIGNALS

45% campaign success gain

Measured result delivered on the Salesforce Marketing Cloud integration program.

25% profitability uplift

Business impact tied to governed contactability and campaign orchestration flows.

40% Oracle query improvement

Public-sector payment modernization work improved reporting and payment-query performance.

60% faster payment operations

Optimization work removed transaction and query bottlenecks in production payment services.

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EXPERIENCE PART TWO: CORE BANKING AND PLATFORM INTEGRATION

ARCHITECTURE THEMES

- Core Banking
- API Gateway
- REST + SOAP
- ETL Modernization
- Audit Readiness
- AWS + Azure

These roles were heavier on system integration, compliance delivery, reporting modernization, and platform stability inside regulated financial environments.

PROFESSIONAL EXPERIENCE

Banking programs in this period focused on platform rollout, inter-application communication, ETL modernization, reporting quality, and cloud-enabled production support.

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.

- CORE BANKING
- API GATEWAY
- REST & SOAP
- ETL MODERNIZATION
- AWS AND AZURE

- 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.

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.

- REPORTING APPS
- ETL OPTIMIZATION
- ENCRYPTION MODEL
- WOMPI INTEGRATION
- AWS AND TERRAFORM

- 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.

MODERNIZATION SCOPE

94+ Integrated Services

The Banco Union program required a real mediation layer, not isolated APIs, so service standardization and translation logic became a core architectural asset.

130+ ETL Assets

ETL cataloging and modernization mattered as much as APIs because reporting and audit flows were tied directly to the operating model.

30% to 40% Reporting Gains

Internal applications and optimized data flows improved reporting quality and business decision speed for several teams.

Security by Design

Encryption, anonymized replicas, and production-risk reduction were built into delivery instead of treated as afterthoughts.

IMPACT SIGNALS

99.8% migration success   39k customers

80k loans   130+ ETL assets

$15k/month saved   1.5h faster close

Earlier roles built the base for later lead work: migration architecture, ETL execution, database optimization, and measurable operational improvement.

PROFESSIONAL EXPERIENCE

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.

ORACLE FLEXCUBE   CORE BANKING MIGRATION   TECHNICAL LEADERSHIP   ETL AND DATASTAGE

ODS AND REPORTING

- 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.

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.

SQL OPTIMIZATION   3NF MODELING   LATENCY ANALYSIS   PERFORMANCE TUNING

- 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.

PRODUCTION TECHNOLOGY STACK

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

The public portfolio complements enterprise delivery with infrastructure labs, repeatable automation, and Spring Boot presentation work that makes the production stack visible outside client environments.

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SELECTED SKILLS

Java / Spring Boot **96%**

Python **91%**

Architecture & Integrations **93%**

AWS / Terraform / CI-CD **92%**

SQL, NoSQL, ETL, BI **90%**

Frontend Support Delivery **72%**

HIGHLIGHTED PROJECTS

These programs combine architecture definition, implementation ownership, security-aware delivery, and measurable business outcomes in enterprise environments.

CINTE GROUP S.A. / EXPERIAN | JUN 2024 - DEC 2025

Salesforce Marketing Cloud Integration

Designed a six-month integration program that connected Salesforce Marketing Cloud with internal AWS services through a new API Gateway, secure SFTP exchange, governed customer-data pipelines, and production-ready technical designs.

Enabled campaign orchestration and reliable contactability flows while improving campaign success rates by 45% and profitability by 25% under enterprise security and governance constraints.

- Defined the API Gateway and secure SFTP exchange that allowed Salesforce Marketing Cloud to communicate with internal AWS services.
- Produced diagrams, technical designs, and governed data-movement flows for a six-month program with cross-team dependencies.
- Balanced Java, Python, infrastructure, and governance needs so the solution could move cleanly from design into production delivery.

Stack: AWS, Terraform, Java, Python, SFTP, API Gateway, Salesforce Marketing Cloud

CINTE GROUP S.A. / EXPERIAN | JUN 2024 - DEC 2025

MongoDB to Amazon DocumentDB Modernization

Led a compatibility-heavy migration from on-premises MongoDB to Amazon DocumentDB that required adapting roughly 400 queries across 130 components, standardizing translation libraries, and coordinating Node.js, Spring Boot, and Python updates.

Reduced operating cost by nearly $15,000 per month, increased migration-team efficiency by about 70%, and established encryption plus anonymized data distribution for downstream analytics and monitoring.

- Adapted approximately 400 data-access queries across 130 components while guiding the migration mix between Node.js and Spring Boot services.
- Created reusable translation and casting utilities so teams could move data safely without losing metadata fidelity.
- Implemented encrypted and anonymized distribution flows for reporting and monitoring platforms that depended on protected production data.

Stack: Amazon DocumentDB, MongoDB, Terraform, Python, Node.js, Spring Boot, AWS

BANCO UNION | MAR 2022 - AUG 2023

Core Banking API Gateway and ETL Modernization

Built the integration backbone for a new core banking ecosystem, including an API Gateway and mediation layer with 94+ REST and SOAP services, a legacy-to-modern translation API, and technical standards for regulatory readiness.

Supported the bank operating-license process and accelerated modernization across more than 130 ETL and reporting assets, improving auditability, compliance delivery, and operational integration speed.

- Delivered an API Gateway and mediation layer that became the integration backbone for regulated banking operations.
- Cataloged and improved more than 130 ETL and reporting assets so audit and operational teams could work with cleaner delivery standards.
- Produced standards, manuals, and integration documentation used in readiness work for regulatory and compliance processes.

Stack: Java, Spring Boot, REST, SOAP, AWS Glue, Azure Data Factory, GoAnywhere, Power BI

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MORE ENTERPRISE PROJECTS: MODERNIZATION, LAUNCH, AND MIGRATION

PROJECT THEMES

Public-sector modernization

Android launch   Banking migration

API delivery   Security

Reporting impact

The project selection emphasizes programs where architecture decisions, code delivery, and operational outcomes were all part of the same responsibility set.

HIGHLIGHTED PROJECTS

INDEPENDENT / MINISTRY OF TRANSPORT | JAN 2024 - JUN 2024

Traffic Fines Payment Modernization

Modernized a public-facing traffic fines payment platform by upgrading the backend from Java 8 to Java 21, redesigning the API layer, and rebuilding administrative and payment flows with React-based delivery.

Improved Oracle reporting and payment-query performance by 40%, established the technical foundation for future payment modules, and delivered a more secure operational workflow for a critical public service.

- Migrated the core payment module from Java 8 to Java 21 and documented the target architecture for future delivery work.
- Created a new REST API and modern administrative frontend for inquiry, payment, and user-management flows.
- Standardized shared connectivity modules and introduced secure authentication, encryption, session handling, and caching.

Stack: Java 21, FastAPI, React, Oracle 13c, Redis, Encryption, Secure Authentication

BOLD | AUG 2023 - DEC 2023

Bold Android Banking Product Launch

Helped deliver the first Android banking-product prototype in roughly three to four months, combining backend domain modeling, API delivery, and cloud support for microloans and low-balance account flows.

Enabled faster go-to-market for new financial products once the company received authorization to operate as a financing company, while keeping quality, documentation, and automated testing in scope.

- Built backend services and domain models under Domain-Driven Design to support the product launch timeline.
- Worked across cloud environments, documentation, and test design so the mobile experience had stable backend support.
- Contributed to a fast delivery cycle without dropping the engineering discipline needed for a regulated financial product.

Stack: Python, FastAPI, Pydantic, Pytest, Java, AWS, MongoDB, DDD, Scrum

BANCO DE OCCIDENTE | MAY 2019 - DEC 2020

FLEXCUBE Loan Portfolio Migration

Designed the migration architecture and core rules for moving active loan portfolio products from legacy systems into Oracle FLEXCUBE, coordinating ETL, reporting, and rehearsal cycles with business and technology teams.

Reached a 99.8% migration success rate across 39,000 customers and 80,000 loans, while ETL and reporting optimizations reduced close-cycle time by 1.5 hours.

- Defined migration rules and technical architecture for revolving-credit and fixed-amount loan products entering FLEXCUBE.
- Led an 11-person team through migration rehearsals with Oracle and internal stakeholders until the process became reliable at scale.
- Built and optimized ETL assets, ODS queries, and reporting flows that supported the migration and later production operations.

Stack: Oracle FLEXCUBE, DataStage, Java EE, Jakarta EE, Python, Jenkins, PostgreSQL, Oracle

WHAT THESE PROJECTS SHOW

Architecture plus delivery

The strongest programs required both architecture decisions and direct implementation ownership.

Security-aware execution

Encryption, authentication, governance, and protected data movement were part of delivery scope.

Modernization depth

Legacy-to-modern transitions included Java upgrades, data migration, ETL evolution, and API redesign.

Visible business impact

The project set includes measurable success in campaign performance, migration quality, and operational speed.

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PUBLIC PORTFOLIO, INFRASTRUCTURE LABS, AND RECRUITER CONTACT

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LOCATION
Cali, Colombia

Public projects were chosen to show hands-on infrastructure, automation, and application-delivery work that complements the enterprise resume.

PERSONAL PROJECTS

Public GitHub work and infrastructure labs

GITHUB PROJECT
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

GITHUB PROJECT
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

GITHUB PROJECT
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

GITHUB PROJECT
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/

RECRUITER CONTACT

For recruiter conversations, technical interviews, or leadership opportunities, use any of the channels below.

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