

Bryam David Vega Moreno

Senior Software Architect & Tech Lead • Java / Spring Boot / Cloud / API Design

Cuenca, Ecuador (Remote)

vegabryam40@gmail.com

linkedin.com/in/bryam-vega

PROFESSIONAL SUMMARY

Senior Software Architect & Tech Lead with 7+ years of experience designing cloud-native systems and leading backend engineering teams across fintech and banking in Latin America. Deep expertise in microservices architecture, API-first design, and multi-cloud infrastructure (AWS, GCP, Azure). Proven ability to set technical direction, mentor engineers, and drive organizational change — from establishing API governance standards to architecting platforms that cut operational cycle times by 3x. International conference speaker across 7 events: apidays New York, JCONF Peru, JCONF Dominicana, DevFest Ecuador, and AWS Community Day Ecuador (2024 & 2025). C1 English. Currently leading backend architecture at Thoughtworks for a multi-bank financial platform across Latin America.

TECHNICAL SKILLS

Backend

Java 6, 8, 11, 21 & 25, Spring Boot, Spring Cloud, Hibernate, Spring Data JPA, Jakarta EE, Circuit Breaker (Resilience4j), Saga, Retry / Fallback, Bulkhead

Cloud & DevOps

AWS (EC2, EKS, Lambda, S3), GCP (GKE, Pub/Sub), Azure (AKS), Docker, Kubernetes, CI/CD (GitLab), Azure DevOps, GitHub Actions

API Design

OpenAPI 3.0 / 3.1, API-First / SDD, REST, GraphQL, AsyncAPI, Swagger, Apigee, Spring Cloud Gateway

Architecture

Microservices, Event-Driven, CQRS, DDD, TOGAF, BIAN, C4 Modeling, Hexagonal, Saga, Circuit Breaker, Bulkhead, Retry / Fallback

Messaging & Streaming

Kafka, Pub/Sub, Apache Camel

Databases

PostgreSQL, Oracle, SQL Server, MongoDB, Redis, DB2

Testing & Quality

JUnit, Mockito, k6, TDD, SonarQube, OWASP Top 10, CVE Analysis

Observability

Dynatrace, Kibana, Grafana, Management Engine

AI & Emerging

AI Agents, MCP Servers, Spec-Driven Development (SDD)

KEY ACHIEVEMENTS

- Leading the adoption of an API-First engineering model at Latam Airlines — designing the pipeline architecture and driving the initiative with the backend team, achieving contract validation cycles of under 20 minutes in early implementation. Presented the underlying methodology as a case study at apidays New York 2026.
- Architected and led the redesign of Corporación Favorita's supply chain processing platform, reducing end-to-end cycle time from 24 to 8 hours — a 3x throughput improvement delivered while leading a cross-functional team of 5.
- Led cloud infrastructure strategy across multi-cloud environments (AWS, GCP, Azure) — defining Kubernetes deployment models, event-driven architectures with Kafka, and API gateway patterns adopted across banking and fintech clients in Latin America.
- Built and mentored backend engineering teams at Thoughtworks, Globant, and Devsu — driving technical direction, architectural decision-making, and engineering culture across organizations in the financial sector.
- Recognized as an international voice in software architecture: 7 accepted talks at apidays New York, JCONF Peru, JCONF Dominicana, DevFest Ecuador, and AWS Community Day Ecuador covering API design, cloud-native architecture, and AI-powered systems.

PROFESSIONAL EXPERIENCE

Thoughtworks

Nov 2024 – Present

Senior Consultant — Latam Airlines Financial Alliances • Quito, Ecuador

- Designing scalable backend architectures for a financial alliances platform handling credit card approvals across multiple Latin American banks — applying resilience patterns (Circuit Breaker, Saga, Retry, Bulkhead) to guarantee reliability across distributed banking integrations on GCP.
- Leading a backend team of 4 engineers: task planning, daily syncs, performance management, and delivery standards.
- Managing cloud infrastructure with GCP Kubernetes and Pub/Sub; reviewing and optimizing for scalability and reliability.

Stack: Java 21 & 25, Spring Boot, Spring Cloud (Circuit Breaker, Gateway), GCP (Kubernetes, Pub/Sub, Cloud SQL), Redis, Docker, Resilience4j, OpenAPI 3.1, TDD, DDD, TOGAF, REST API

Universidad Católica de Cuenca — Professor, Advanced Software Engineering

Mar 2025 – Present

Universidad Politécnica Salesiana — Professor, Software Master's Degree

Dec 2023 – Present

Globant

May 2024 – Nov 2024 • Quito, Ecuador

Senior Java Developer — Banco Internacional

- Defined the architecture for two core banking modules: a reporting engine for financial statements and a transaction/account display platform — designing the service structure, data flow, and integration patterns adopted by the team.
- Led code quality initiative: 50% reduction in code smells across 10 key repositories; 80% of repos achieved 90%+ test coverage.
- Reduced bugs by 45% through structured code review and QA collaboration as tech lead of a 4-person team.
- Deployed and monitored microservices using Podman and Management Engine; implemented end-to-end data encryption for sensitive financial services.
- Designed and documented REST APIs with Swagger 3.0 and implemented path-based versioning strategy.

Stack: Java 17 & 21, Spring Boot, Oracle, SQL Server, DB2, Redis, Azure DevOps, Podman, Docker, Hibernate, BIAN, TDD, DDD

Devsu

Jun 2023 – May 2024

Senior Java Developer — Banco Pichincha • Quito, Ecuador

- Led API-First adoption at Banco Pichincha using OpenAPI 3.0 — establishing contracts as the development baseline for RTO projects, improving consistency across teams and reducing integration friction across the bank's service ecosystem.
- Secured endpoints via Apigee gateway with Auth0; used AsyncAPI + Kafka for async notification services.
- Conducted performance testing with Postman and k6, monitored real-time service behavior with Dynatrace.

Stack: Java 17, Spring Boot, Reactive/Functional Programming, OpenAPI 3.0 / 3.1, Resilience4j (Circuit Breaker, Retry, Bulkhead), Saga Pattern, Kafka, Apigee, Auth0, AWS EKS, Azure AKS, k6, Oracle, Redis, BIAN, TOGAF

Kruger Corp

Aug 2022 – Mar 2023

Principal Consultant & Tech Lead — Corporación Favorita • Quito, Ecuador

- Designed the architecture for Corporación Favorita's reception and dispatch platform — decomposing a monolithic process into independent services and applying parallelization, reducing end-to-end cycle time from 24 to 8 hours.
- Reduced bugs by 60% through code refactoring, OWASP Top 10 compliance, and establishing QA best practices.
- Led a 5-person cross-functional team (devs + QA) under Scrum/Kanban; managed backlog and sprint planning.

Stack: Java 6 & 8, Spring Boot, Struts, Jakarta, Kubernetes, Docker, DB2, Hibernate, OWASP Top 10, SOAP, SOA, Kibana, Azure DevOps

ITNova

Dec 2021 – Aug 2022

Java Development Analyst — Gire & Zurich • Quito, Ecuador

- Led migration of legacy Struts insurance systems to Java EE web services for Zurich Argentina, improving performance and maintainability.

- Built an electronic check management system for Gire S.A. using functional programming; implemented tokenization for transaction security.

Stack: Java 6–11, Spring Boot, Struts, OpenAPI, Kafka, Docker, Kubernetes, Oracle, MongoDB, AOP, Reactive Programming

Earlier Experience: Logic Studio / BICSA, Panama — Senior Java Developer (AWS Lambda, S3, banking processes, Mar–Jun 2023) • Software Developer Researcher at Politécnica Salesiana (IoT microservices, 2021) • Software Developer & BI at Gerardo Ortiz (SAP migration, Oracle BI, 2019–2021).

SPEAKING & PUBLICATIONS

apidays New York 2026 — New York, USA — "API-First Flowline: A Fully Automated Path from AI-Driven Spec Design to Production". Pipeline that reduced contract approval time from 3 days to 20 minutes.

JCONF Peru 2025 — Lima, Peru (Dec 2025) — "API First en acción: del contrato a la arquitectura limpia con Spring Boot".

JCONF Dominicana 2026 — Dominican Republic (upcoming) — Accepted speaker.

DevFest Ecuador 2025 — Quito, Ecuador (Nov 2025) — "De GKE a Cloud Run: reducir costos y complejidad en entornos críticos".

AWS Community Day Ecuador 2025 — Quito, Ecuador (Oct 2025) — "Automatizando scraping inteligente con AWS y LLMs: de Fargate a Bedrock con EventBridge".

AWS Community Day Ecuador 2024 — Ecuador (2024) — "Big Data en AWS: procesamiento a escala con Amazon EMR y Apache Spark".

DevFest Ecuador 2023 — Cuenca, Ecuador (Nov 2023) — "Análisis de Datos con Google Colab y BigQuery".

Technical writing on Medium: medium.com/@vegabryam40 — Hexagonal Architecture, Design Patterns, AOP in Spring Boot, and more.

EDUCATION

MSc Software Engineering — Mention in Software Architecture Design 2022 – 2023
Politécnica Salesiana University, Ecuador

BSc Computer Science Engineering — Mention in Software Development 2016 – 2021
Politécnica Salesiana University, Ecuador

LANGUAGES

Spanish — Native English — C1 Advanced (Professional working proficiency)