

Freddy Bautista Baquero

Backend & Infrastructure Engineer — Java | Python | Secure by design

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PROFESSIONAL SUMMARY

Backend and infrastructure engineer with 2+ years building and operating production systems in Java, Spring Boot and Python. Currently on core banking infrastructure at BBVA (instant payments — ACH, Bre-B) through Inetum, working under formal secure-development standards, contract-driven service design and automated testing gates — certified in the bank's secure development standard before touching the codebase. Track record across critical-uptime systems: 24/7 streaming infrastructure, ERP and billing modules, Linux server operations and hands-on incident resolution. Three Top-2 finishes in LATAM-scale engineering competitions, including an energy-prediction platform and a security gateway for AI agents. Focused on resilience, failure design and business context over raw code output. English: conversational, with C1-C2 reading and listening certified (EF SET 76/100).

TECHNICAL SKILLS

Backend: Java 17, Spring Boot, Spring MVC, Spring Security, REST APIs, OpenAPI, JPA/Hibernate, Maven, Microservices & Service Orchestration

Python: FastAPI, data processing pipelines, automation, AI integrations (OpenAI, Gemini, LiteLLM)

Architecture & Design: Design patterns (GoF), SOLID principles, layered & hexagonal architecture, domain modelling, API contract design, distributed systems & resilience patterns

Infrastructure & DevOps: Docker, container orchestration (Kubernetes), Linux/UNIX administration, Bash scripting, Git, CI/CD, Jenkins, Artifactory, AWS & cloud fundamentals

Databases: PostgreSQL, Oracle SQL, SQL query design & indexing, Redis, Supabase

Security & Quality: Secure development lifecycle (certified), OWASP-oriented practices, authentication & authorization design, SonarQube, unit & integration testing (JUnit, Mockito), code reviews, Clean Code

Ways of working: Agile/Scrum (SFC certified), SDLC, requirements gathering, technical documentation, AI-assisted / spec-driven development

Frontend (working knowledge): React, TypeScript, HTML/CSS

EXPERIENCE

Backend Java Developer (Staff Programmer)

Jun. 2026 – Present

BBVA Colombia — *Instant Payments Team* | Contractor (via Inetum)

Bogotá, Colombia — Remote

- Develop backend services for BBVA's instant payments domain (ACH, Bre-B real-time rail) inside the bank's internal microservices and service-orchestration architecture, where transactions are time-bounded and failure handling is non-negotiable
- Passed the bank's secure development certification (88.37/100); apply secure coding standards, static analysis (SonarQube) and mandatory code review on every delivery
- Completed intensive internal training on proprietary backend frameworks (service exposure and business/transaction layers) — graduated top of cohort (4.7/5)
- Build backend components end-to-end: business logic modules, contract-driven code generation from XML specifications, unit testing with JUnit/Mockito, and Maven CI pipelines against an internal artifact repository
- Work in Scrum with daily ceremonies, refinement and formal QA gates across a distributed banking delivery team

Fullstack Developer

Feb. 2025 – Feb. 2026

ESCOLE Experiencias Educativas SAS

Bogotá, Colombia — On-site

- Deployed and maintained production backend systems: REST APIs on Docker plus Linux server operations with hands-on incident resolution
- Built a 24/7 CCTV streaming system in Python/FastAPI serving 16 cameras (RTSP→HLS), owning uptime, monitoring and recovery of the service
- Delivered an equipment management platform (React + Google Apps Script) adopted across 5+ departments, with unit tests and technical documentation
- Automated internal workflows with Python/Bash and led Git adoption in legacy projects

Java Developer

Feb. 2024 – Feb. 2025

Serviportenal SAS

Bogotá, Colombia — Remote

- Designed and built a multi-module ERP in Java 17, Spring Boot and JPA/Hibernate covering billing, contracts and client domains, structured in a layered architecture with clear separation between domain, service and persistence
- Modelled the PostgreSQL schema for the billing domain with transactional integrity across invoice, contract and payment operations — financial records must reconcile, so consistency guarantees drove the design
- Applied design patterns (repository, DTO, service layer, factory) and SOLID principles to keep modules independently testable as the system grew
- Exposed REST APIs under OpenAPI contracts, versioned so client integrations would not break on change
- Ran requirements gathering directly with business stakeholders, translated operational processes into domain models, and delivered against committed dates

COMPETITIVE ENGINEERING — PODIUM FINISHES

EcoSentinel — Energy Prediction Platform

Top 2 / 80 teams, 283 participants (LATAM)

IAMinds Hackathon 2026 — *Indra* | Tech Lead & Backend Developer

2026

- Led system design and backend architecture for an energy consumption prediction platform processing 275k+ records with ML models, including LLM-assisted root cause analysis workflows for operational anomalies — built under 36-hour competitive conditions

github.com/Olinky-HackDay-Indra-Hackaton/ecosentinel-uptc

Roxy — Security Gateway for AI Agents

Top 2 / AI Security track, 100 selected of 300+ applicants

Platanus Hack 26 (Bogotá) | Backend Developer

2026

- Built a security layer enforcing delegation-chain authorization for AI agents calling MCP servers, with a deterministic Rust decision engine and Z3-based formal policy auditing — authorization modelled as a verifiable property, not a runtime guess (Go, Rust, Z3, LLM policy compilation)

landing.roxygt.lat

Adkio — AI Campaign Agent

Top 2 / 50 teams, 300+ participants (Colombia & Mexico)

The GTM Hackathon 2026 — 30x (Andrés Bilbao, Rappi co-founder) | Tech Lead

2026

- Led technical architecture and backend for an AI agent built in 36h with Python/FastAPI, React/TypeScript, Supabase (pgvector for RAG) and LiteLLM

github.com/FreddyB200/adkio

CERTIFICATIONS & DISTINCTIONS

Secure Development Certification — BBVA internal standard (88.37/100, 2026)

EF SET C1/C2 — English (76/100, reading & listening) | cert.efset.org/en/kL3mbC

Oracle: Database Programming with SQL (2025–2031) | Database Foundations (2024) | Database Design (2024)

Cisco: PCAP — Programming Essentials in Python (2024)

Scrum Fundamentals Certified (SFC) — Vabro.ai & VMEdU (2025)

Platzi: Java (JDK 17), Docker Fundamentals, Professional Git & GitHub, Linux Dev Environment

Aspire Leaders Program — founded at Harvard University by Harvard Business School professors · competitive global selection

Makers Fellowship — Coding Track · acceptance rate <1% · top talent program for LATAM’s next tech leaders · co-founded by Andrés Bilbao (Rappi co-founder)

EDUCATION

Systems Engineering

2024 – Present

Fundación Universitaria Compensar (UCompensar)

Bogotá, Colombia

Software Analysis and Development Technology

2025 – 2027

SENA — Servicio Nacional de Aprendizaje

Colombia