

LEANDRO EMILIANO GARAYOA

Informatics Engineer

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PROFESSIONAL PROFILE

Senior Software Engineer with a technical focus on Software Architecture, ETLs and Data Solutions, with experience in Big Data, analytics and technical visualization.

Computer Science Engineer with a solid track record in backend development, software architecture, and data solutions. Specialized in Java (Spring Boot, Batch, Security), Python (FastAPI, ETLs, Jupyter), applying architectural principles such as hexagonal, multi-tier, microservices, and event-driven.

Design and development of efficient ETL pipelines and datalake/medallion architectures, integrating external APIs and messaging systems (Kafka, RabbitMQ, Tibco, MqSeries).

Experience in Big Data environments, applying tools such as ETL development, Apache Nifi, Spark, Pandas and Jupyter for distributed processing, log analysis and technical visualization (Power Bi, Kibana and Jupyter).

I also do complementary front-end development with React and jQuery, integrating functional components into full-stack solutions when the project requires it.

Finally, I focus on CI/CD automation, testability, and best practices to build robust, maintainable, and results-oriented solutions.

I stand out for my technical judgment at all stages of development: functional analysis, technical design, implementation, automated, testing and documentation. I bring strategic vision, autonomy and active team collaboration.

AWS | Java | Python | C# | ETL | IA (LLM-RAG-Agente IA) | Big Data | Data Analyst / Scientist | React | JQuery | Javascript | Cloud

ACADEMIC TRAINING

Computer Science Engineer - Universidad Católica Argentina - 1996 to 2002

Mercantile Bachelor - Instituto San Rafael - 1991 to 1995

LANGUAGES

Spanish: Native | English: Intermediate (B1) | Portuguese: Basic (A2)

TRAINING AND INTERNSHIPS

- Certifications and training: they are available in the [Academic Training / My Training](#) section
- Personal achievements: they are detailed in [My Personal Achievements](#) with my applied projects: *Data Analytics & Data Science* and *Frontend with React* with their Demos, Technical Demos

PROFESSIONAL EXPERIENCE

For more information, see the Professional Training section at vasquito.github.io/LGisITTechie, where you will find details about the tools, technologies and approaches used in the projects.

I am going to detail my last 3 work experiences.

- **Globant - Position: Java Developer Architect**

February 2021 – June 2025

Software Engineer | DATA/IA Area

Java Developer Architect role in data projects combining backend development, cloud architecture, and advanced analytics.

- **Development and maintenance** of microservices and ETL pipelines in Java (Spring Boot) and Python (FastAPI), applying modern architectural principles
- **Technology migration** of Java 8 services to Java 11/17
- **Cloud Architecture** with (EC2, ECS, Lambda)
- **Technical support and code reviews** (PRs), issue resolution and vulnerability analysis, proof of concepts, technical debt.
- **Data Engineering and Data Science solutions:**
 - + Solutions with NIFI
 - + Data modeling (DERs), Lakehouse/Data Lake architecture
 - + Log and metric analysis with Jupyter, Pandas, Matplotlib, Power BI
 - + Integration of OpenIA models LLM into Python microservices for similarity search process
- **DevOps:** CI/CD, Docker, Dockerfile, Vulnerability analysis

- **ANSES - Position: Arquitecto de Soluciones**

March 2019 – February 2021

Solutions Architect with guidelines in Java / .NET

Participated in the design and development of BFF microservices, reusable archetypes, and DLL libraries in Java and .NET (logs, MSMQ, Elasticsearch). Participated in microservice integration (email, Remedy), technical support, and definition of architectural best practices. Collaborated in the adoption of OpenShift, developing containerized microservices and documenting technical guidelines. I implemented CI/CD pipelines in Azure DevOps and Data Engineering solutions:

- + Listener-based ETL to process millions of MSMQ messages and prevent crashes in MSSQL
- + Batch ETL to audit critical logs and store them in Elasticsearch
- + Real-time monitoring development with Kibana + alerts

- **Accenture - Position: Application Developer Specialist**

January 2004 – March 2019

Software Engineer | Proyectos Multicliente

I participated in more than 10 projects for clients such as Telefónica, Banco Galicia, Telecom, ICBC, and ISBN, standing out for my technical autonomy and adaptability.

- + Developed applications from scratch for Telefónica Argentina, including multi-tier design and evolutionary maintenance
- + Participated in an international project (Spain), with technical transfer and training in Rosario
- + At Banco Galicia and Telecom, I made my architectural decisions, achieving scalable and maintainable solutions
- + Integration with external systems through REST APIs, web services, and messaging
- + Development of batch ETL processes for managing large volumes of data
- + At ICBC and ISBN, I deepened my knowledge of REST frontend and microservices, improving software performance and quality

TECHNICAL SKILLS

LENGUAJES

Java · Python · .NET · JavaScript · SQL

BACKEND

JAVA	PYTHON	.NET
Frameworks Spring: Spring Boot · Spring Data / Redis · Spring MVC · Spring Batch · Spring Security · Spring Integration · Spring REST · Spring LDAP · Spring AMPQ · Spring Cache · Spring AOP J2EE / Core Java: EJB · JDBC · Swing · Lambda Model & Data: JPA · Hibernate · OpenJPA Architecture MVC: Spring MVC · EJB · Struts 1.0 Web Services: REST · SOAP · Axis · Apache CXF · Spring Integration Messages / Event-Driven: JMS · MQ Series · Tibco · RabbitMQ · Kinesis Cache: Redis · Elasticache · MongoDB · Spring Cache · In-Memory Rules Engine: Drools · EasyRules Other Java components: Maven · Castor · iText · JasperReports · J Mesa · DisplayTag · JFreeChart · Captcha · jaspyt · PDFBox · QR · Barcode	Frameworks and Microservices: FastAPI · Flask · Django Data Science / Machine Learning: NumPy · Pandas · Spark · Scikit-learn · Matplotlib · Plotly · Seaborn · Pgvector Integrations & APIs: Requests · REST · Swagger · Markdown (GitLab/GitHub) Model & ORM: SQLAlchemy Tools: PyCharm · VSCode · Jupyter Notebook · Anaconda · Google Colab AI & Vector Search: OpenAI · Pgvector, Chroma Others: Lambda · In-Memory Cache, DuckDB	Frameworks: .NET Core / Standard / Framework Web Services: REST · SOAP Mensajería / Queue: MSMQ Testing / BDD: NUnit Cache: In-Memory

Architecture: Hexagonal | Multi-trie | Microservices | Event-Driven | CQRS | Event Sourcing | BFF | MVC

Messages: Kafka · RabbitMQ · Tibco · MQ Series · Kinesis

Authentication: JWT · Basic Auth · Spring Security

Testing: JUnit · Mockito · JaCoCo · NUnit · Coverage · BDD

Cache: Redis · Elasticache · MongoDB · Spring Cache · In-Memory

Multithreads: Java · .NET

Encryption mechanisms with Java · Python · .NET

IA

Assistants IA: Gemini · Copilot - ChatGPT

GenAI Paradigms: Agente AI, LLM, RAG

LLM: Cortex (motor local para modelos) - Llama, Depseek, Mistral, OpenIA

Frameworks LLM: LangChain4j · Spring AI · OpenIA

Vector Database: pgVector, Chroma

Chatboot development with ReactJS, Microservices/Pipelines for AI with Java and Python

DATA: Big Data, Analysis y Visualization

Data Science / ML: Pandas · Numpy · Scikit-learn · Spark · Matplotlib · Plotly · Seaborn

Tools: Jupyter Notebook · Anaconda · Google Colab · PyCharm · VSCode

BI & Dashboards: Power BI · Looker Studio · ElasticSearch, Logstash, Kibana · Apache NiFi · D3.js

Bases de Datos:

- **SQL:** PostgreSQL · MySQL · MSSQL · Oracle · Amazon RDS · Microsoft Fabric · HSQL · Access
- **NoSQL:** MongoDB · DocumentDB · Elasticsearch · Microsoft Fabric

Frontend

React · jQuery · JavaScript · Bootstrap · DataTables · JSON · AJAX · CSS · DHTML · JQueryMobile

Cloud & DevOps

AWS (S3, EC2, ECS, Kinesis, Elasticache, DocumentDB, Lambda) · GCP · Azure · Docker ·

Kubernetes · Minikube · Openshift · Jenkins · GitHub Actions · Istio · Service Mesh · Jagger ·

Grafana · CI/CD

Versionado: GitHub · GitLab · Azure · TFS · Git Flow

API Definitions: Swagger · Markdown (GitHub/GitLab)

Análisis: JMeter · JConsole · SoapUI · ARC Rest · SonarQube

BPM

Camunda · BPMN · State Machine Customs, Flows Models, components, process BPMN y State Machine Customs, Workflows

Architect Design

Draw.io · UML · DFD · Enterprise Architect · Visual Paradigm