

# Transform Your Business with Intelligent and Scalable Software

**Juan Guillermo Gómez**

Google Developer Expert (GDE) in Firebase, GCCP & AI/ML | Software Architect | Educator

## 1. Professional Profile

I am Juan Guillermo Gómez, a technology expert combining strategic technical leadership with academic excellence. As a **Google Developer Expert (GDE)** across three key categories (**GCP, Firebase, and AI**), I offer a comprehensive vision spanning from cloud infrastructure to advanced Artificial Intelligence solutions.

I hold a **Master's in Software Engineering** and am currently pursuing a **Master's in AI and Data Science**. My experience includes roles as a Tech Lead, Software Architect, and Advisor for critical organizations (DANE, Imbanaco) and tech startups, where I have led transitions to microservices architectures and developed products reaching millions of users.

I also possess a strong educational vocation with over a decade of experience as a university professor and international speaker.

## 2. Value Proposition

My proposal bridges **Robust Software Engineering** with **AI Innovation**, backed by professional Google certifications and extensive pedagogical experience.

### Key Certifications:

- **Google Cloud:** Professional Cloud Architect & Professional Cloud Developer.
- **AI & Data:** Professional Machine Learning Engineer (Google), Generative AI Leader (Google), Neo4j Certified Professional.

### 3. Consulting & Advisory Services

#### A. Software Engineering & Architecture (End-to-End)

*From concept to production deployment.* I transform business requirements into scalable, resilient technological solutions using modern architectural patterns.

- **Architecture Design:** Definition of SOA and Microservices architectures to ensure scalability.
- **Critical Software Development:** Advisory on building high-availability mobile and web applications.
- **Legacy Modernization:** Strategies for migrating monolithic systems to distributed modern architectures.
- **Quality & Patterns:** Implementation of software engineering standards, design patterns, and quality assurance.

#### B. AI Implementation (AI First)

*Integrating ML, Deep Learning, and Agentic Systems into your business.* Practical experience in deploying AI models that generate real value, moving beyond "hype" to functional implementations.

- **Generative AI & NLP:** Developing solutions capable of processing natural language for products with massive user bases.
- **Agentic AI Systems:** Designing autonomous agent-based systems capable of reasoning and executing complex tasks.
- **Machine Learning & MLOps:** Full ML lifecycle management, from data preparation to model training and deployment.
- **Data Analysis:** ETL strategies and inferential statistics for data-driven decision-making.

#### C. Google Cloud Platform (GCP) & Cloud Computing

*Solid, secure, and scalable infrastructure.* Infrastructure optimization as a GDE and Certified Architect.

- **Cloud Native Architecture:** Designing native solutions using Google Cloud managed services.
- **Backend as a Service (Firebase):** Rapid and secure backend implementation using the Firebase ecosystem.
- **Optimization & Costs:** Enhancing performance and optimizing cloud resource consumption.

## 4. Training & Team Development

Technology is only effective if teams know how to use it. I offer knowledge transfer based on years of university and corporate teaching experience.



### A. Technical Mentorship

- **Tech Leadership:** Mentoring for technical leads and development teams to enhance management and technical decision-making skills.
- **Code Reviews:** Review sessions to elevate code quality standards.

### B. Workshops & Training

- **Custom Training:** Practical courses in Software Architecture, Cloud Computing (GCP), and AI/ML development.
- **Innovation Workshops:** Intensive workshops on GenAI and integrating AI tools into development workflows.
- **Speaking:** Inspiring technical talks on the future of technology and AI trends.

## 5. Contact Information

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