

# Gabriel Max Antonio Escobari Quiroga

EXPERT IN DEVELOPMENT OF FULLSTACK APPLICATIONS AND INNOVATIVE  
TECHNOLOGICAL SOLUTIONS | MASTER IN SOFTWARE ENGINEERING | CERTIFIED IN  
ITIL 4 FOUNDATION | EXPERIENCE IN DIFFERENT DEVELOPMENT STACKS

## Personal and contact information

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## Professional Summary

**full-stack** developer with over 25 years of experience designing, developing, and implementing high-performance and scalable software solutions, mastering both the **frontend** and **backend** across multiple technology stacks. My expertise includes frontend technologies such as **JavaScript**, **HTML**, **CSS**, and modern frameworks like **Vue.js**, **Angular**, and **React**, which allow me to create engaging, interactive, and streamlined user interfaces.

On the backend side, I have a solid grasp of stacks such as **XAMP** (Apache, MySQL and PHP), **Spring Boot with Angular and PostgreSQL**, and the **PERN** stack (PostgreSQL, Express, React, Node.js), tackling complex projects across multiple industries.

With an engineering background from the Universidad Mayor de San Andrés, advanced studies in **Software Engineering** and a certification in **ITIL 4 Foundation**, I combine advanced technical skills with a strategic approach oriented to problem solving and creating value for clients.

My experience includes:

- **Frontend** : Development of highly responsive, accessible, and dynamic user interfaces using **JavaScript**, **Vue.js**, **Angular**, **React**, **HTML5**, and **CSS3**.
- **Backend** : Creating robust and scalable architectures with frameworks such as **Spring Boot**, **Node.js**, and **Laravel**, ensuring seamless integration with databases and systems.
- **Relational Databases** : Query optimization, schema design, and data integrity assurance with **PostgreSQL**, **MySQL**, and **SQL Server**.
- **DevOps and CI/CD** : Implementation of pipelines with tools such as **Git**, **Docker**, and **Kubernetes**, as well as cloud solutions for scalable and efficient projects.

I have led development teams and managed large-scale technology projects, working with public and private institutions to design solutions tailored to their needs. Some of my notable projects include:

- The development of the **Integrated Hospital Management System** for the Japanese Hospital of Santa Cruz, funded by JICA.
- A modular ERP for the Cuna Association, which integrated administrative, accounting and planning modules.
- Management of the development of an **integrated accounting system** for Yacimientos Petrolíferos Fiscales Bolivianos (YPFB).

Additionally, my focus on **process optimization**, my experience in modern technologies, and my passion for technological innovation have allowed me to deliver solutions that exceed customer expectations, foster collaboration, and generate tangible results.

I am a well-rounded and committed professional, capable of bridging the gap between the frontend and the backend, ensuring seamless integrations and exceptional user experiences in every project.

## Work Experience

### July 2024 - Present | YPFB | Software Engineer

I lead the development and maintenance of complex web applications using technologies such as **Java** , **Spring Boot** , **Angular** , and **PostgreSQL** . I designed and implemented scalable systems that optimize operational and analytical processes in the organization, ensuring efficient and stable performance in critical environments.

### July 2023 – June 2024 | YPFB | Director of Corporate Solutions

I designed strategies for the systematization and automation of business processes through the use of modern technologies, collaborating with management to translate business objectives into robust and scalable technological solutions.

### February 2023 - June 2023 | YPFB | Software Engineer

I developed high-performance web applications integrating **Java** , **Spring Boot** , **Angular** and **PostgreSQL** , with a focus on user experience and modular design, optimizing key processes for YPFB's internal operations.

### July 2022 - January 2023 | Bolivian Construction Company | Systems Development Manager

I designed and developed a tracking system for civil infrastructure projects using **XAMPP technology (Apache, MySQL, and PHP)** and the **Laravel** framework , complemented with **HTML** , **CSS** , and **JavaScript** to create dynamic and attractive user interfaces. The solution allowed the visualization of data in real time and the generation of dynamic reports for progress tracking. *Example* : Tracking System.

**February 2022 - April 2022 | TA-Networking - JICA | Consultant**

Developed technological proposals based on **XAMPP**, incorporating **HTML**, **CSS**, and **JavaScript** to design functional prototypes of referral and counter-referral systems in emergency centers, improving interoperability between different health entities.

**September 2021 - December 2021 | Plurinational Authority of Mother Earth - UNDP | Principal Consultant Designed and developed the**

**SISPRO** tracking system using **XAMPP**, the **Laravel framework**, and frontend technologies such as **HTML**, **CSS**, and **JavaScript**, providing an efficient web platform to manage results-based projects and ensure information availability. *Example* : SISPRO.

**January 2021 - August 2021 | National Fund for Indigenous Development | Head of Systems Unit**

I implemented administrative and project tracking systems using **XAMPP** and the **Laravel framework**, complemented with **HTML**, **CSS**, and **JavaScript** to improve the user experience. I also integrated **MySQL** databases and **PHP** applications for efficient information management.

**July 2020 - June 2021 | ALTAGRO - CIRNMA | Consultant**

I built a virtual platform using **XAMPP** and the **Laravel framework**, integrating **HTML**, **CSS**, **JavaScript**, and **PHP** for an interactive and dynamic frontend, while **MySQL** was used for data management. The solution was aimed at the dissemination of agricultural alternatives.

**July 2015 - December 2015 | International Quinoa Center | Consultant**

I developed the web portal and document repository of the CIQ using **XAMPP** for Backend and **HTML**, **CSS** and **JavaScript** for frontend, allowing users to access research, articles and documents related to the topic of quinoa. Example: [CIQ Portal](#).

**March 2015 - June 2015 | ICCO | Coordinator**

I implemented a monitoring and marketing platform developed with **XAMPP** for Backend and **HTML**, **CSS** and **JavaScript** for frontend, connecting small camelid producers with national and international markets through a **PHP** interface and a **MySQL** database.

**August 2014 - October 2014 | Cuna Association | Coordinator**

I led the design and execution of a project to analyze factors that affect the demand, access and use of micronutrients in Bolivia.

- I designed the work plan, sample design and monitoring system based on statistical methodologies and data automation.
- I processed and analyzed surveys from a sample of 2,000 households in the regions of La Paz, Cochabamba, Santa Cruz and Pando.

- Project implemented under the *"Zero Hidden Hunger" program* , in alliance with MI Canada and the Ministry of Health of Bolivia.

**June 2014 - October 2014 | Decentralized Public Institution Food Sovereignty | Senior Consultant**

I developed a monitoring and evaluation system using **XAMPP (Apache, MySQL, PHP)** for Backend and **HTML, CSS and JavaScript** for frontend to implement a logical framework pointer-based approach.

- I provided a computer tool that allowed the evaluation of the effectiveness of small producer strengthening programs financed by the IDB.
- I applied dynamic technologies to integrate data from agricultural projects in the areas of vegetables, small ruminants and fruits.

**May 2014 - October 2014 | Cuna Association | Consultant**

I ensured the security and monitoring of the organization's computer systems.

- Coordinate with the National Directorate to optimize key systems such as the Planning System, Monitoring System, Budget Accounting System and the computer network, all under an infrastructure based on **XAMPP** for Backend and **HTML, CSS and JavaScript** for frontend.

**April 2014 - May 2014 | Cuna Association | Administrator**

I managed a virtual community for the *"Deciding with Freedom" project* , focused on sexual and reproductive health for young people and adolescents in Bolivia, Peru and Ecuador.

- I implemented tools in **PHP and MySQL** to manage a social network with a focus on rights and education.
- I collaborated with international actors, such as the European Union, SOCODEVI and German Cooperation (GTZ), to consolidate the platform.

**February 2014 - April 2014 | European Union | Administrator**

I managed a virtual community designed to facilitate interaction between key actors in sexual and reproductive health in Bolivia, Peru and Ecuador.

- I implemented improvements in the structure and performance of the platform using **PHP and MySQL** for Backend and **HTML, CSS and JavaScript** for frontend.

**September 2013 - October 2013 | German Cooperation GTZ | Consultant**

I evaluated monitoring systems developed by the Vice Ministry of Rural Development.

- Designed and proposed a unified monitoring and evaluation system, optimized to integrate data from agricultural projects through **XAMPP- based software tools** for Backend and **HTML, CSS and JavaScript** for frontend.

**September 2013 - December 2013 | Cuna Association | Consultant**

**PHP-** based systems for qualitative data analysis.

- I monitored projects such as the Biocultural Endogenous System and Municipal Integration to promote rural business competitiveness.

**June 2013 - March 2014 | Cuna Association - MI Canada | Quantitative Consultant**

Led data analysis for a study of iron and folic acid supplementation in pregnant women in Bolivia.

- I designed and developed automated data collection and processing systems in **PHP and MySQL** for Backend and **HTML, CSS and JavaScript** for frontend, generating reports for effectiveness evaluation.

**March 2013 - July 2013 | European Union - Cuna Association | Consultant**

**XAMPP** -based technologies.

- I optimized the flow of information between actors in Bolivia, Peru and Ecuador, improving accessibility and virtual collaboration.

**January 2013 - March 2014 | Cuna Association | Consultant**

I supervised the security and operation of the entity's computer systems:

- **XAMPP-** based technologies to maintain and optimize planning, monitoring and budgeting systems.

**March 2012 - March 2012 | European Union - Cuna Association**

**Consultant - Virtual Community Management of the Sexual and Reproductive Health Project**

- Implementation of a virtual community to promote interaction between key actors in sexual and reproductive health in Bolivia, Peru and Ecuador.
- Backend and frontend development using **XAMPP technologies (Apache, MySQL, PHP)** to ensure optimal platform performance.

- User management, content moderation and configuration of monitoring and interaction analysis tools.
- Project funded by the European Union and SOCODEVI.

#### **January 2012 - February 2012 | Cuna Association**

##### **Consultant - Development of the Web Platform of the Observatory of Domestic, Gender, Child and School Violence**

- Design and development of a dynamic web platform to facilitate the collection, analysis and visualization of data related to domestic violence in El Alto.
- Implementation of administration modules, monitoring and interactive reports using **PHP** , **MySQL** and front-end tools such as **HTML** , **CSS** and **JavaScript** .
- Optimization of SQL queries to ensure fast access to statistical data.

#### **January 2012 - February 2012 | Cuna Association | Consultant - Computer Systems Administration**

- Maintenance and improvement of existing systems such as the **Planning System** , **Monitoring System** and **Budget Accounting System** .
- **Apache** -based web server , integrating security improvements and monitoring of traffic on the local network.

#### **September 2011 - January 2012 | Cuna Association | Consultant - Computer Systems Administration**

- Implementing updates and upgrades to critical systems using a **XAMPP -based stack** .
- Coordination of technical support tasks and optimization of IT infrastructure to ensure the stability of internal systems.

#### **June 2011 - December 2011 | Spanish Agency for International Development Cooperation (AECID) | Consultant - Design of the Information System for Monitoring Programs and Projects**

- Development and implementation of a monitoring system for programs and projects of the departmental government of Cochabamba.
- Design of a robust backend using **PHP** and **MySQL** , with a focus on scalability and automated report generation.
- Integration of workflows and data validation to ensure consistency in administrative processes.

#### **June 2011 - October 2011 | Cuna Association | Consultant - Design and Development of Baseline and Web Portal**

- Design and development of a web portal that allowed the collection of ethnographic and qualitative data on sexual and reproductive rights.
- Setting up local development environment with **XAMPP** for testing before deploying to production.
- **PHP** processing tools .

**April 2011 - July 2011 | Cuna Association | Consultant - Development of Baseline for Domestic Violence**

- Creation of an online monitoring system to evaluate data related to domestic and gender violence in El Alto.
- Development of relational databases using **MySQL** to ensure the integrity of the collected data.
- Design of interactive user interfaces to facilitate data entry and consultation in real time.

**April 2011 - May 2011 | Cuna Association | Consultant - Development of a Contract Management System**

- Design and implementation of a system for the complete management of contracts, from subscription to certification.
- Development of the backend with **PHP** and **optimization of queries to the MySQL** database to support a large volume of transactions.
- Implementation of security measures on the **Apache server** to protect sensitive data.

**February 2011 - July 2011 | Cuna Association | Consultant - Development and Implementation of a Monitoring and Evaluation System Based on the Logical Framework Approach**

- Design and development of a monitoring and evaluation system for the organization's projects, focused on results-based logic.
- Implementation of a user-friendly interface using **PHP** and front-end tools such as **HTML** , **CSS** and **JavaScript** .
- Setting up databases in **MySQL** with a focus on data security and multi-user accessibility.
- Training end users in the use of the system and generation of automated reports.

**September 2010 - September 2011 | Asociación Cuna - IDB FOMIN | Technical Consultant - Municipal Integration Project Monitoring System**

- Development of a monitoring system to manage critical variables of municipal integration and rural business promotion.
- Implementation of interactive dashboards and advanced queries in **MySQL** to facilitate decision making.

- **Apache-** based web server , ensuring low response times and high system availability.
- System integration with other institutional and IDB platforms to synchronize data in real time.

**January 2010 - September 2010 | CEREFE | Consultant - Development and Implementation of the Integrated Digital Medical History and Appointment Control System (SIDHIMECC)**

- Creation of a digital system for managing medical records and appointments in a medical institution.
- Development of the backend with **PHP** and design of a relational database in **MySQL** to support the complete flow of clinical data.
- Design of intuitive interfaces for doctors and administrative staff, optimizing the user experience.
- Implementation of functions to protect the privacy of medical data, following security standards.

**May 2009 - November 2009 | Dr. Ricardo Quiroga | External Consultant - Study of People with Disabilities in the City of El Alto**

- Development of a baseline system for collecting data on people with disabilities.
- Design of query and report generation tools with **PHP** and **MySQL** , allowing the analysis of sociodemographic data.
- Creation of specific modules for data entry and validation with guaranteed integrity.

**September 2009 - December 2009 | ATEAM Business Technology | External Consultant - Business Intelligence Tools Implementation**

- Design and development of key performance indicator (KPI) reports using advanced queries in **MySQL** .
- **PHP-** based system for visualizing business metrics in real time.
- Coordination with multidisciplinary teams to integrate data from diverse sources into a single analytical environment.

**October 2008 - August 2009 | Ministry of Development Planning – VIPFE | Head of the Systems Unit - Administration of Investment Information Systems**

- Management and maintenance of critical systems such as **SISIN** and **SISFIN** to monitor public investments.
- Development of new functionalities using **PHP** and optimization of the database in **MySQL** to improve process efficiency.
- Generation of public investment monitoring reports and design of an internal control system to supervise national projects.



- Participation in the implementation of the SISIN system in collaboration with the Ministry of Economy of Argentina.

**April 2007 - December 2007 | Food Security Support Program (PASA) | Head of the Monitoring Unit - Development and Implementation of Monitoring and Evaluation Systems**

- Design and implementation of the Integrated Financial Administration System (SIAF) and a national project monitoring system.
- Implementation of the backend with **PHP** and data storage in **MySQL** , ensuring system scalability.
- Training of users in system management and technical support to ensure its correct operation.

**August 2003 - August 2008 | Food Security Support Program (PASA) | Responsible for Monitoring and Evaluation of Funded Projects**

- Project Tracking and Monitoring System Administration, developed with **XAMPP technologies** .
- Design of custom queries and reports in **MySQL** for project monitoring at the national level.
- Development of analysis strategies to measure the impact of projects on food security.

## **Academic Preparation**

**Axelos Global Best Practice - People Cert, International**

ITIL FOUNDATION CERTIFICATE IN IT SERVICE MANAGEMENT | 2023

**National Technological University, Buenos Aires Regional Faculty, Buenos Aires, Argentina**

POSTGRADUATE EXPERT IN PROJECT MANAGEMENT | 2015

**Universidad Mayor de San Andrés - CEPIES, La Paz, Bolivia**

DIPLOMA IN PEDAGOGICAL ORGANIZATION AND ADMINISTRATION OF THE CLASSROOM IN HIGHER EDUCATION | 2007

**Universidad Mayor de San Andrés**

MASTERS IN SOFTWARE ENGINEERING | 2006

**Loyola University, La Paz, Bolivia**

DIPLOMA IN INFORMATION AND NETWORK TECHNOLOGIES | 2003

**NUR University, La Paz, Bolivia**

DIPLOMA IN LOCAL MANAGEMENT FOR INTEGRAL DEVELOPMENT | 2002

**Universidad Mayor de San Andrés**

Bachelor of Electronics Engineering | 1997

## Languages

- **Spanish** : Native
- **English** : B2 (Intermediate Advanced) - <https://cert.efset.org/vPGi1N>

## Key Skills

- **Frontend Development and User Interface Design (UI/UX):**  
Mastery of technologies such as HTML, CSS, JavaScript and modern frameworks such as React, Angular or Vue.js, together with a basic understanding of user-centered design (UI/UX) principles, ensuring interactive, accessible and optimized interfaces.
- **Backend Development and APIs:**  
Experience in creating robust backend services using technologies such as Node.js, Python (Django, Flask), Java (Spring Boot) and PHP (Laravel), and in developing secure and efficient RESTful or GraphQL APIs.
- **Databases and Data Management:**  
Advanced knowledge of relational (MySQL, PostgreSQL) and non-relational (MongoDB, Redis) databases, including query design, optimization and management, and data storage.
- **Integration and Version Control:**  
Skill in using version control tools such as Git, and in managing branches, pull requests and code reviews on platforms such as GitHub, GitLab or Bitbucket.
- **Automation, CI/CD and DevOps:**  
Familiarity with continuous integration and delivery (CI/CD) tools and practices, Docker containers and orchestration with Kubernetes, along with deploying and managing applications on cloud services (AWS, Azure, GCP).
- **Web Security and Good Development Practices:**  
Knowledge in the implementation of security measures such as authentication (JWT, OAuth), protection against vulnerabilities (XSS, SQL Injection, CSRF), encryption and data validation, guaranteeing secure applications.
- **Testing and Quality Assurance:**  
Competence in the use of testing tools such as Jest, Mocha, Jasmine or Selenium, to perform unit, functional and integration tests, and to guarantee the quality of the delivered code.
- **Software Architecture and Systems Design:**  
Knowledge of design patterns (MVC, Microservices, Monoliths), and the ability to select and apply the appropriate architecture for the needs of the project, ensuring scalability and maintainability.
- **Performance and Scalability Optimization:**  
Ability to improve application performance, both frontend and backend, through code optimization techniques, fast page loading, and scalable system design.
- **Project Management and Technical Communication:**  
Experience in agile methodologies such as Scrum or Kanban, to manage

development projects, with strong communication skills to collaborate effectively with technical teams and stakeholders, ensuring alignment with business objectives.

## **Knowledge of Tools Used as Full Stack**

### **Frontend**

1. **JavaScript** (Level: Advanced)
2. **HTML** (Level: Advanced)
3. **CSS** (Level: Intermediate)
4. **Vue.js** (Level: Advanced)
5. **React** (Level: Intermediate)
6. **Angular** (Level: Basic)

### **Backend**

1. **Laravel (PHP)** (Level: Advanced)
2. **Spring Boot (Java)** (Level: Advanced)
3. **Node.js (JavaScript)** (Level: Advanced)
4. **MySQL** (Level: Advanced)
5. **PostgreSQL** (Level: Advanced)
6. **SQL Server** (Level: Basic)

### **DevOps Tools**

1. **Git** (Level: Advanced)
2. **Docker** (Level: Intermediate)
3. **Kubernetes** (Level: Basic)
4. **Cloud Solutions** (Level: Intermediate)

## **INTERNATIONAL EXPERIENCE**

### **Ministry of Planning (MIDEPLAN) and the Chilean Cooperation Agency, Santiago, Chile**

**Implemented System:** Chile's Public Investment Information System: Integrated Project Bank (BIP)

**Description of work performed:** As Head of Systems for the Vice Ministry of Public Investment and External Financing, we organized and participated in work meetings and information gathering with professionals from MIDEPLAN and the Chilean Cooperation Agency (AGCI). The objective was to analyze the technical, functional and interrelation characteristics of the Chilean Public Investment Information System and to determine the feasibility of transferring the BIP System.

**Date:** January 5-9, 2009

### **Ministry of Economy, Buenos Aires, Argentina**

**Implemented System:** Argentina's Public Investment Information System: Investment Projects Bank BAPIN

**Description of work performed:** As Head of Systems of the Vice Ministry of Public Investment and External Financing, we organized and participated in work meetings with professionals from the Ministry of Economy of the Argentine Government. The objective was to analyze the Argentine Public Investment Information System and determine the feasibility of transferring the BAPIN System.

**Date:** February 2-6, 2009

## **TEACHING EXPERIENCE**

### **Public University of El Alto, El Alto, Bolivia**

**Position:** Lecturer

**Description of work performed:** Lecturer of the subjects Computer Networks (ETN-803) and Communications Networks (ETN-912).

**Start date:** April 2007

**End date:** March 2008

**Working time:** 12 months

### **Universidad Mayor de San Andrés, La Paz, Bolivia**

**Position:** Teaching Assistant

**Description of work performed:** Teaching Assistant for Physics III (2007).

**Start date:** July 1988

**End date:** June 1989

**Working time:** 12 months

### **Universidad Mayor de San Andrés, La Paz, Bolivia**

**Position:** Teaching Assistant

**Description of work performed:** Teaching Assistant for the subject ETN 601 Digital Systems I.

**Start date:** October 1988

**Completion date:** April 1989

**Working time:** 6 months

## **RECOGNITIONS / CERTIFICATIONS**

### **Certificate in Exhibitor Quality, I Seminar Workshop**

**"Strengthening Hospital Administration to Improve Health Care"**

**Date:** March 1999

### **Certificate of Recognition**

**Awarded by:** Japan University Hospital and Japan International Cooperation Agency (JICA)

**Description:** Support in the establishment of the Integrated Financial Management System (IFMS), Japanese University Hospital version.

## **PROFESSIONAL REFERENCES**

### **Mr. Ernesto Mercado Quintela**

**Position:** General Manager, EBC

**Entity/Company:** Bolivian Construction Company

**Location:** La Paz, Bolivia

**Year of Contact:** 2014

**Email:** ernestomercado@gmail.com

**Phone:** +591 71915958

### **Mr. Toichiro Iso**

**Position:** Hospital Management Expert

**Organization/Company:** JICA

**Location:** Japan

**Year of Contact:** 2015

**Email:** iso.toichiro@ta-n.com

**Phone:** +81 9088554418

### **Lic. Delsy Merino Vargas**

**Position:** National Director, Cuna Association

**Entity/Company:** Cuna Association

**Location:** La Paz, Bolivia

**Year of Contact:** 2015

**Email:** dmerino@cuna.org.bo

**Phone:** +591 77777585

### **Lic. Gloria Villarroel**

**Position:** President of the Board of Directors, Association of Multidisciplinary Professionals of Santa Cruz

**Entity/Company:** Association of Multidisciplinary Professionals of Santa Cruz

**Location:** Santa Cruz, Bolivia

**Phone:** +591 71651215