

---

# Maikel Barrios Insua

## Software Engineer

**Email:** ingmbi8807@gmail.com | **LinkedIn:** <https://www.linkedin.com/in/mbi-bi> |

**WhatsApp:** +59891359503 | **Sitio web:** <https://portfolio.pr0c0d3.com>

---

## Summary

Engineer with 10 years of experience developing scalable, high-performance solutions for sectors like e-commerce, financial services, and telecommunications. I hold a Master in Website Engineering and Management (MWEM), which enhances my ability to oversee projects from concept to completion while ensuring robust system performance. I focus on managing the full software development lifecycle, leveraging modern practices to consistently meet client expectations. Passionate about innovation and efficiency, I aim to deliver reliable digital solutions that drive business success.

---

## Education

### Master of Science in Engineering and Management of Websites

*Universidad Internacional de La Rioja (UNIR), Spain | 08/2023 – 02/2025*

### Diploma in Soft Skills

*UNIR | 06/2023 – 12/2023*

### Bachelor of Telecommunications Engineering

*Universidad José Antonio Echeverría, Havana, Cuba | 09/2015 – 09/2021*

---

## Professional Experience

### Senior Backend Engineer

**WiTI**, Remote, Chile | 01/2025 - Present

- Developed an e-commerce around **Latin America** for **Cencosud** company with custom design for each country.
- Designed and implemented microservices with a huge scalability and customize.
- Followed Agile best practices, utilizing **Scrum** and **Jira** to deliver projects on schedule.
- Helped Cencosud to improve performance through different tools like Go, getting at about 40%.

- Designed Golan's scaffolder in the microservices using **Clean Architecture**  
*Tech Stack:* Go, Gin, Kafka, AWS, Docker, Kubernetes, Dynamo DB, Document DB, Lambda, EKS, S3, Redis, New Relic
- 

## Senior Full-Stack Developer

**Innovate**, Montevideo, Uruguay | 03/2023 – 12/2024

- Spearheaded the **migration of front-end architecture** from Sencha.js to Vue.js 3, significantly improving UI performance and responsiveness.
  - Designed and implemented microservices for **Palette monitoring**, ensuring seamless integration and scalability.
  - Enhanced localization modules for **Palette UI**, improving usability and performance.
  - Followed Agile best practices, utilizing **Scrum** and **Jira** to deliver projects on schedule.  
*Tech Stack:* Vue.js 3, Typescript, Spring Boot, Kafka, AWS, Docker, Kubernetes, InfluxDB
- 

## Full-Stack Developer

**Ledefyl**, Montevideo, Uruguay | 10/2022 – 03/2023

- Led the migration of Ledefyl's infrastructure, ensuring a **seamless transition** to scalable, SOA architecture.
  - Designed automated CI/CD pipelines, improving **deployment efficiency** by 40%.  
*Tech Stack:* Python, Django REST, React, Angular, MySQL, PostgreSQL
- 

## Senior Software Engineer (Freelance)

Montevideo, Uruguay | 02/2023 – Present

- Developed **Offertlatam**, a C2C e-commerce platform utilizing microservices architecture and robust CI/CD pipelines.  
*Tech Stack:* Go (Fiber), MongoDB, Next.js, AWS ECR, Docker
- 

## Technical Leader

**Ministry for Science, Technology and Environment**, Havana, Cuba | 02/2022 – 06/2022

- Optimized government websites, improving **front-end and back-end performance** by 30%.
  - Designed **blue/green deployment** strategies for private cloud infrastructure.  
*Tech Stack:* WordPress, PHP, Go, Elasticsearch, Docker
- 

## Semi-Senior Software Engineer

University of Havana, Cuba | 09/2020 – 10/2021

- Developed **IoT solutions** for environmental monitoring, integrating real-time data acquisition with web visualization tools.  
*Tech Stack:* Go (gRPC), Docker, Kubernetes, PostgreSQL
- 

## Software Engineer

French Alliance of Havana, Cuba | 07/2017 – 10/2021

- Administered systems and developed applications for **student enrollment management**, streamlining operational processes.
  - Designed and implemented a **security camera system with a web interface**, enhancing campus security and monitoring.
  - Maintained and improved the **Alliance's website**, leveraging the Odoo framework for performance and functionality upgrades.  
*Tech Stack:* React, TypeScript, Go, Python, MySQL, VMware, Active Directory
- 

## Software Engineer (Freelance)

Client: U.S.-Based Healthcare Company, Remote | 02/2016 – 01/2018

- Developed a **healthcare management system** with microservices architecture, optimizing data processing and scalability.
  - Designed and implemented **cloud-based solutions** to ensure secure, high-performance operations.
  - Delivered tailored solutions to address client-specific needs, contributing to a 20% operational improvement.  
*Tech Stack:* Go, AWS (RDS, EC2, ECS), React, TypeScript, Docker
- 

## Skills

- **Programming Languages:** Go, Python, Java, JavaScript, TypeScript
  - **Frameworks:** React, Vue.js, Django REST, Spring Boot
  - **Tools & Platforms:** Docker, Kubernetes, AWS (ECS, RDS, EC2), Kafka, VMware
  - **Databases:** MongoDB, MySQL, PostgreSQL, Oracle
  - **Specialized Areas:** Microservices, CI/CD, Agile (Scrum), SOA
  - **Other Tools:** Elasticsearch, Nginx, OWASP Zap Proxy
- 

## Languages

- **Spanish:** Native
  - **English:** Advanced
- 

## Certifications & Courses

- **Python Data Science, UNIR**
  - **AZURE AZ-900, UNIR**
  - **AWS Cloud Practitioner, UNIR**
  - **Programming with Go, Edutim Academy**
  - **Diploma Soft Skill and Management, UNIR**
  - **Secure Web Development, UNIR**
  - **Fundamentals of Engineering and Project Management, UNIR**
  - **Fundamentals of AI for Software Development and DevOps, UNIR**
- 

## Achievements

- **Final Master Degree Project.** Developed a real time message broker for IoT equipment, using Go as tech stack. I got a profound knowledge about goroutine, channels and concurrency pattern. On the other hand, I used Prometheus, Grafana as monitoring system, as infrastructure I took Kubernetes for testing with scalability. The project allows real time and bidirectional communication from provider to subscriber. I had to implement an SDK for allowing the interaction with the broker. Applied a fan-in/fan-out architecture.
- 

## References

Omar Antonio Hernandez Duany | University of Havana Cuba | [oaht1961@gmail.com](mailto:oaht1961@gmail.com)

Niurka Armas | Ministry of Science, Technology and Environment, Havana Cuba |  
[niurka.armas@citma.gob.cu](mailto:niurka.armas@citma.gob.cu)

---