Maikel Barrios Insua

MWEM | Systems Architect | Expert System Consultant | Tech Lead

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Summary

Engineer with 10 years of experience in designing and leading scalable, high-performance digital solutions across e-commerce, financial services, and telecommunications. I specialized in backend architecture, cloud-native systems, and real-time distributed applications.

I hold a **Master in Website Engineering and Management (MWEM)**, equipping me with both technical and managerial expertise to deliver projects from concept to production. Recognized for improving system scalability, optimizing infrastructure costs, and leading engineering teams with modern practices (CI/CD, clean architecture, microservices, DevOps). Passionate about building reliable digital ecosystems that drive measurable business growth.

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 Lead System Engineer

TeamInternational, Remote, USA | 07/2025 – Present

• Leading backend architecture and development of cloud-native services using Go, AWS (ECS/EKS, Lambda, RDS Aurora), gRPC, and hexagonal architecture. Structuring services so business logic stays clear, and maintenance stays simple

- Improved system performance and simplified maintenance by restructuring services and enforcing clean architecture.
- Migration from a monolithic architecture made in C# on Azure to AWS microservice architecture using Golang.
- Introduced automated testing and CI/CD practices, reducing release cycle time by 10%.

Tech Stack: AWS, Azure, Go, MSQL, GRPC, C#

Senior Backend Engineer

WiTI, Remote, Chile | 01/2025 – 07/2025

- 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, Lamda, EKS, S3, Redis, New Relic

Senior Full-Stack Developer

2Innovate, 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 Architect (Freelance)

Montevideo, Uruguay | 02/2023 – Present

- Partnered with startups and enterprises to **design scalable backend systems** using Go, gRPC, and AWS. I work primarily with Go (Golang), AWS, gRPC, and hexagonal architecture, developing cloud-native microservices and distributed systems focused on performance and reliability.
- Reduced infrastructure costs by up to X% with optimized cloud-native architectures. I'm open to new opportunities—contract or full-time—where I can bring both deep technical expertise and proactive leadership to ambitious backend projects.
- Mentored engineering teams in clean architecture and best practices, improving code quality and maintainability.
- Core Tech: Go, AWS, Kubernetes, MongoDB, Next.js, Docker.

Tech Stack: Software Infrastructure, Go, System Architecture · MongoDB · Next.js · Docker · Kubernetes · AWS · Microsoft Azure

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 (+8 years), Python (+5 years), Java (1 year), JavaScript (+4 years), TypeScript (+4 years), Kotling (1 year),
- Frameworks: React (+5 years), Vue.js (2 years), Django REST (+2 years), Spring Boot (1 year)

- Tools & Platforms: Docker (+8 years), Kubernetes (+4 years), AWS (ECS, RDS, EC2) (5 years), Kafka (2 years), VMware (2 years),
- **Databases:** MongoDB (+4 years), MySQL (+5 years), PostgreSQL (+2 years), Oracle (1 year)
- **Specialized Areas:** Microservices (+10 years), CI/CD (3 years), Agile (Scrum) (+5 years), SOA (8 years)
- Other Tools: Elasticsearch (1 year), Nginx (+6 years), OWASP Zap Proxy (+3 years).

Languages

Spanish: NativeEnglish: 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 gorutine, 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-int/fan-out architecture.

References

Omar Antonio Hernandez Duany | University of Havana Cuba | oahd1961@gmail.com

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