

# Juan Gabriel Cabral

## Senior Software Architect Engineer

Posadas, Misiones, Argentina

Phone: +54 9 376 484-1142

Email: cabralgabriel783@gmail.com

LinkedIn: <https://www.linkedin.com/in/gabriel-cabral-a71b9a41/>

### PROFESSIONAL SUMMARY

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Senior Software Architect Engineer with 12+ years of experience specializing in microservices architecture, real-time systems, and cloud-native solutions. Expert in designing scalable systems using hexagonal architecture, event-driven patterns, and modern technologies including Go, Node.js, and AWS. Proven track record in system migrations, real-time communication platforms, and high-performance distributed systems with advanced resilience patterns.

### CORE COMPETENCIES

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- Software Architecture & Design Patterns (Hexagonal, Event-Driven, CQRS)
- Microservices & Distributed Systems Design
- Real-time Communication Systems (SignalR, WebSockets)
- Cloud Technologies (AWS SQS, Redis, Load Balancing)
- System Migration & Legacy Modernization
- Performance Optimization & Scalability
- DevOps & Container Orchestration (Docker, Nginx)
- Code Generation & Scaffolding Tools Development

### PROFESSIONAL EXPERIENCE

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#### MyIntelli - Senior Software Architect Engineer (Freelance)

2024 - Present

Key Projects & Achievements:

MyIntelliV2 - Time Tracking Migration (Laravel to Go):

- Led complete system migration from Laravel to Go using hexagonal architecture
- Implemented use case-driven design for different tracking scenarios
- Integrated AWS SQS for queue processing and error replication to Slack
- Implemented Redis caching layer for performance optimization
- Developed comprehensive scaffolding system generating: entities, models, mappers, handlers, DTOs, repositories, interfaces, services, routes, and SQL imports
- Created middleware for dynamic database injection per client
- Technologies: Go, AWS SQS, Redis, Slack API, Laravel, MySQL, PostgreSQL

MyIntelliV2 - Real-time Communicator (SignalR):

- Architected real-time communication system using SignalR for live monitoring
- Implemented AWS SQS consumer with decorator pattern for channel management
- Built daemon integration for real-time user activity tracking
- Developed supervisor dashboard for live application monitoring
- Implemented resilience patterns: internal message buffer and Redis failover
- Configured Nginx load balancer with Docker scaling (scale=4 instances)
- Technologies: SignalR, AWS SQS, Redis, Nginx, Docker, Real-time WebSockets

MyIntelliV2 - Work Orders & Timelogs Microservices:

- Engineered microservices using Singleton and Strategy patterns
- Implemented hexagonal architecture for maintainable, testable code

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- Technologies: Node.js, TypeScript, MySQL, PostgreSQL, SQL Server

### **360 (Latam) - Backend Developer (Freelance)**

*2023 - 2024*

Projects:

- Encuentra24: E-Commerce platform for Central America - System optimization
  - Yapo: Chilean classified ads platform - Nubox and SAP Layer integration
  - Implemented electronic invoice systems for Chilean market
- Technologies: Symfony 1.4, PHP 8, MySQL, PostgreSQL, SQL Server

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### VU Security - Full Stack Developer (Freelance)

2022 - 2023

Projects:

- Fraud v2 & v3: Banking anti-fraud software systems
- Led migration from v2 to v3 architecture
- Performance optimization and security enhancements

Technologies: Spring Boot v2, MySQL, PostgreSQL, SQL Server

### Osana (Healthcare for Everyone) - Full Stack Developer

2021 - 2022

- Corona Call: Healthcare chatbot for Sanatorio Guemes
- Hospital Austral: Telemedicine platform refactoring
- MGP Health App: Municipal healthcare appointment system

Technologies: Laravel, Node.js, Vue.js, React Native, Docker, PostgreSQL

### TDI - Full Stack Developer

2018 - 2020

- Tax Management Systems: Santa Cruz (ASIP) and Neuquen (SIAT)
- CAECE University: Educational system maintenance
- Developed modules: Summons, Auditing, Legal processes

Technologies: PHP, Bootstrap, jQuery, Oracle PL-SQL

### Accenture - Full Stack Developer

2016 - 2017

- MME (My Management Engagement): Enterprise application
- Performance monitoring and optimization

Technologies: C#, VB.NET, ASP.NET, SQL Server

## TECHNICAL SKILLS

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Programming Languages: Go, Node.js, TypeScript, PHP, Java, C#

Frameworks: Laravel, Symfony, Spring Boot, ASP.NET

Real-time Technologies: SignalR, WebSockets, Socket.io

Cloud & Infrastructure: AWS (SQS, S3, EC2), Redis, Nginx

Databases: MySQL, PostgreSQL, SQL Server, SQLite, Oracle

DevOps & Tools: Docker, Git, Postman, Slack API

Architecture Patterns: Hexagonal, Event-Driven, CQRS, Microservices

## EDUCATION

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Higher Technician in Systems Analysis and Design, I.E.S.A, 2008

Specialized in backend development, system architecture, and data processing

## LANGUAGES

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Spanish: Native

English: Intermediate (B1-B2)