MARCO ANTONIO GONZALEZ JUNIOR

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Solutions Architect | Cloud Engineer | Artificial Intelligence Engineer

Professional Summary

Solutions Architect with 15+ years building scalable enterprise systems and 10+ years in AI/ML. Led technical teams delivering solutions that generated 30% revenue increases and 200% improvement in customer retention across fintech, retail, and digital marketing. Currently specializing in generative AI, fine-tuning foundation models, RAG systems, agentic architectures, and AI-assisted development workflows with MCP integrations.

Enterprise Architecture: Domain-Driven Design, Event-Driven Architecture, Microservices, Enterprise Integration Patterns

AI & Machine Learning: Machine Learning, Generative AI, LLMs, RAG Systems, Fine-tuning, Multi-Agent Systems, MLOps, Knowledge Graphs

Cloud & DevOps: AWS/Azure/GCP, Kubernetes, Docker, Terraform, CI/CD Pipelines, Infrastructure as Code

Leadership: Technical Team Management, Cross-functional Collaboration, Technology Strategy, Digital Transformation

EXPERIENCE

Capco

Solutions Architect - Artificial Intelligence

São Paulo

September 2024 Present

Leading AI-driven legacy modernization initiatives using knowledge graphs and LLMs to transform enterprise COBOL systems.

- Designed intelligent legacy modernization platform using Neo4j knowledge graphs, LangGraph, and AWS Bedrock to automate COBOL application transformation, delivering 85%+ reduction in migration timelines
- Engineered production RAG systems combining semantic search (Elasticsearch, Faiss) and knowledge graphs (Neo4j) to achieve 95% fidelity in preserving business logic during legacy COBOL migration to Java/.NET
- Led team of 8 engineers implementing LLM orchestration frameworks, enabling automated extraction of functional requirements documentation from enterprise-scale legacy systems comprising millions of lines of code
- Standardized deployment using Kubernetes and Terraform, reducing client infrastructure setup from weeks to hours and saving thousands in deployment costs

IBM São Paulo

Senior Solutions Architect

July 2022 September 2023

Architected enterprise AI solutions using IBM WatsonX, designing foundation model fine-tuning pipelines and advanced RAG systems with continuous learning capabilities for financial services clients.

- Architected 10+ foundation model fine-tuning pipelines and RAG knowledge bases using WatsonX, PyTorch, and TensorFlow, achieving 85% automated resolution rate and improving customer satisfaction by 25%
- Designed multi-cloud MLOps infrastructure with automated continuous learning pipelines on AWS and Azure, maintaining 99.9% availability while processing 5M+ monthly AI interactions
- Implemented comprehensive model evaluation frameworks using BLEU/ROUGE scores, semantic similarity metrics, and hallucination detection, achieving 15% higher accuracy than baseline models and reducing query handling time by 40%
- Standardized Docker-containerized model deployment with Terraform IaC, enabling 90% faster AI model deployment cycles and maintaining 90%+ task completion rates

banQi São Paulo

Senior Solutions Architect

June 2019 July 2022

Led technical architecture and engineering teams at fast-growing fintech startup, promoted from Technical Lead to Principal Engineer, driving system scalability and strategic technical direction.

- Architected microservices platform using Docker, Kubernetes, TypeScript and Go supporting 10x traffic growth, reducing system response times by 65% and achieving 99.95% system uptime
- Built ML-powered fraud detection system with real-time scoring, reducing fraudulent transactions by 40% and false positives by 25%

- Unified system architecture implementing Domain-Driven Design and serverless computing (AWS Lambda, Node.js, TypeScript), establishing technical standards and ensuring alignment with business strategy
- Led adoption of containerization across 15+ applications using Helm, ArgoCD, and GitOps workflows, reducing deployment times by 80% and enabling continuous delivery practices
- \bullet Built and managed cross-functional engineering team of 12+ developers, implementing agile practices with GitHub Actions CI/CD and increasing delivery velocity by 45%

Petlove São Paulo Tech Lead May 2015 June 2019

Led technical architecture for Brazil's largest pet supplies e-commerce platform, driving digital transformation initiatives.

- Architected prime membership platform using Ruby on Rails, Elixir, and PostgreSQL, achieving 30% of monthly revenue (\$2M+) and 500% increase in customer repurchase rate
- Led ERP system modernization using Python and distributed warehouse management, enabling multi-state expansion and supporting 200% business growth
- Built Business Intelligence team of 6 engineers, implementing big data solutions with ETL pipelines that improved inventory forecasting accuracy by 85%
- \bullet Designed automated supply chain optimization using machine learning algorithms, reducing procurement costs by 15% and eliminating 90% of stockout incidents

Jüssi São Paulo

Solutions Architect November 2012 May 2015

Architected digital marketing automation solutions as Facebook Marketing Partner and Google Partner for enterprise clients.

- Led Facebook Marketing Partner certification, collaborating with Facebook Engineering using GraphQL APIs to deliver marketing automation for biggest e-commerces in Brazil
- Architected Google Ads automation platforms using Java and RESTful APIs, managing \$5M+monthly ad spend and achieving 40% improvement in ROAS
- Built real-time bidding optimization algorithms using statistical modeling, reducing customer acquisition costs by 25% across 5k+ enterprise campaigns
- Designed scalable attribution platform using message queues and distributed processing, processing 10M+ daily events with sub-second response times

Editora Abril
São Paulo

Senior Software Engineer

September 2008 November 2012

Developed large-scale content management systems for Brazil's leading media and entertainment publisher.

- \bullet Built Veja SP platform using HTML5, CSS3, JavaScript, and MySQL, serving 500K+ monthly users with 99.9% uptime
- Architected enterprise content management system using Java and SOA, supporting 20+ publications and 200+ concurrent editors
- Optimized database performance using advanced SQL queries and caching strategies, reducing page load times by 60% and supporting 10x traffic growth
- \bullet Led migration from legacy systems to modern web architecture using a gile methodologies, improving development velocity by 75%

PAST EXPERIENCES

Serasa Experian (Java Enterprise Architect), Western Union (Senior Software Engineer), Toyota do Brasil (Software Engineer), Wdotnet Internet (Owner), Flyever Electronics (Software Engineer) EDUCATION

Faculdade de Informática e Administração Paulista Faculdade Impacta de Tecnologia Universidade Federal de São Carlos MBA Data Science (2015 2016) BS Information Systems (2011 2015) BS Materials Engineering (1996 2000)

CERTIFICATIONS

AWS: Solutions Architect Professional (2025), Data Engineer Associate (2025), ML Engineer (2024), ML Specialty (2024), AI Practitioner (2024), Solutions Architect Associate (2022), Developer (2022) Specializations: Stanford Machine Learning and Deep Learning (2024), IBM AI Engineering Professional and AI Developer (2024), Data Science (2015), Recommender Systems (2014) LANGUAGES

Portuguese: Native English: Fluent Spanish: Conversational