

Michelle G. Crisologo

Senior Backend & AI Systems Engineer | RAG, MCP Servers, AI Product Integration, Ruby on Rails
Philippines | Open to Global Remote | US/EU Overlap Hours
michelle.crisologo@gmail.com | +63 9178611992

Professional Summary

Senior Backend & AI Systems Engineer with 15+ years of experience building scalable SaaS platforms, architecting distributed systems, and modernizing mature applications. Specialized in designing Retrieval-Augmented Generation (RAG) systems, AI product integrations, Model Context Protocol (MCP) servers, and production-grade LLM workflows. Experienced in harness engineering, loop engineering, prompt orchestration, and embedding AI into operational workflows. Deep expertise in Ruby on Rails, PostgreSQL, APIs, distributed architectures, and building business-focused AI systems that improve automation, search, and decision support.

Core Expertise

Backend Engineering:

Ruby on Rails • PostgreSQL • Redis • Sidekiq • REST APIs • GraphQL • Service-Oriented Architecture • Distributed Systems • Performance Optimization • Test-Driven Development

AI Systems Engineering:

RAG Systems Design • MCP Server Development • AI Product Integration • Harness Engineering • Loop Engineering • Prompt Orchestration • Agentic Workflows • Semantic Search • Embeddings • Context Ranking • LLM API Integrations

Infrastructure & Delivery:

AWS • GCP • Docker • CI/CD • Production Reliability • Observability • Scaling SaaS Platforms

Frontend & Product Delivery:

Vue.js • Stimulus • Technical Leadership • Product Architecture • Team Mentorship

AI Systems Projects

- Designed and deployed production-grade **RAG systems** for enterprise document search, contextual question-answering, and internal knowledge retrieval.
- Built **MCP servers** to expose internal business tools, APIs, and datasets to AI-powered applications.
- Developed AI-driven workflow automation using LLMs for operational efficiency, document summarization, and structured extraction.

- Designed **loop engineering workflows** for iterative retrieval, multi-step reasoning, and tool-calling pipelines.
- Built **harness engineering frameworks** to evaluate prompt reliability, edge-case handling, and response consistency.
- Implemented semantic retrieval pipelines using embeddings and contextual ranking strategies for improved output accuracy.

Professional Experience

Dasig Solutions, Inc. — Senior Engineer, Founder | 2014–Present | Remote

- Architected and delivered backend systems for multiple international SaaS clients.
- Designed and deployed production-grade RAG systems for semantic search, enterprise retrieval, and AI-assisted workflows.
- Built MCP servers enabling secure LLM access to internal tools, business processes, and structured datasets.
- Implemented AI product integrations across SaaS applications for search augmentation, workflow automation, and operational tooling.
- Designed harness engineering systems for validating prompt robustness and model consistency in production.
- Built loop engineering workflows for multi-step AI reasoning, iterative retrieval, and tool orchestration.
- Implemented embedding pipelines and retrieval strategies for high-precision contextual outputs.
- Built and scaled Ruby on Rails applications used globally across multiple industries.
- Improved SQL and query performance, reducing page load times by 60%.
- Designed high-availability infrastructure maintaining 99.9%+ uptime.
- Modernized legacy Rails applications to improve release velocity and maintainability.
- Integrated payments, CRMs, analytics platforms, and external APIs.

MedCheck.com.ph — Engineering Lead | 2016–Present

- First engineering hire; delivered MVP in 2 weeks.
- Led backend team of 5 engineers.
- Built healthcare APIs for enterprise and government integrations.
- Migrated monolith toward service-oriented architecture reducing time-to-market by 30%.
- Increased test coverage to 90%+ and reduced production defects by 75%.

Sakura Sky Media — Lead Ruby Engineer | 2013–2017

- Architected eCommerce Rails platforms and optimized Sidekiq workloads reducing queue backlog by 80%.

Friendster / MOL Global — Senior Software Engineer | 2010–2013

- Worked on high-traffic backend systems; improved bug turnaround by 50% through TDD and CI practices.

Early Experience

Branders.com (Java/PHP web apps), NEC Telecom (C++/Java telecom systems), UP Visayas (Research Assistant)

Education

BS Computer Science (Cum Laude)
University of the Philippines Visayas
DOST Scholarship Awardee

Certifications

- Google Cloud Platform Qualified Developer
- Certified Scrum Master
- Globe Telecom TadHackathon Winner