

Gio Rafael Medina

Senior Software Engineer | Go · TypeScript · Distributed Data Pipelines · LLM Agents

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SUMMARY

Backend and full-stack engineer with 10+ years of experience — including 8+ years and 1,000+ production code changes shipped inside Google's monorepo plus fintech backend engineering at Xendit — designing and building Go/Angular platforms, observability tooling, and resumable data pipelines. Author of 10+ reviewed technical design documents, from database re-architecture to a cross-team data platform. Most recently designed and shipped an LLM-powered autonomous coding agent that turns issue tickets into reviewed, test-verified changes. Holds Google's internal Readability certification in both Go and TypeScript.

SKILLS & CERTIFICATIONS

- **Languages:** Go, TypeScript, SQL, Python.
- **Frameworks & Tooling:** Angular, gRPC/Protocol Buffers, REST API design, cron/batch orchestration, CI/CD with automated release pipelines, unit & integration testing.
- **Data & Infrastructure:** Spanner, BigQuery, Cloud SQL (MySQL), Datastore, App Engine, Google Analytics 4, Looker Studio, incremental/idempotent sync pipelines.
- **AI Engineering:** LLM agent orchestration, multi-agent workflows, tool/function calling, AI-assisted code review, prompt and skill authoring for engineering teams.
- **Design & Leadership:** Technical design documents (approved through formal peer review), system and data-model architecture, design review of teammates' proposals, Agile/Scrum facilitation.
- **Certifications:** Google Readability in Go and TypeScript (language-expert reviewer status for idiomatic, review-ready code); Agile Scrum Master (Hexaware, 2025); Google AI certificates – AI Fundamentals, AI for App Building, AI for Research and Insights, AI for Brainstorming and Planning (2026).

EXPERIENCE

Hexaware Technologies (contracted to Google, Enterprise Networking – Data & Applied AI team) | Technical Team Lead | Nov 2022 – Present

- **Technical Leadership:** Tech lead on a 5-engineer team owning 8+ production services; required approver on teammates' changes and designs, and author of the operational handbooks and handover guides for two production services. Authored the team's approved operating-model proposal that raised per-project staffing from 1–2 to 3–5 engineers and defined Lead / Tech Lead / Developer responsibilities. Authored reusable AI-agent skills adopted by the wider team.
- **Autonomous AI Coding Agent:** Designed and shipped an LLM-powered multi-agent pipeline that reads issue tickets, groups them into atomic changes, and autonomously provisions isolated workspaces, builds, tests, runs AI code review, sends changes for human review, and addresses reviewer comments on later runs, with up to 3 changes in flight in parallel. In its first day it turned 5 tickets into 3 reviewed changes, one already merged.
- **Cross-Team Ticketing Data Platform:** Architected and built a centralized, read-only source of truth for incident and ticket data, replacing per-team extraction logic across the organization's dashboards. A Go service incrementally replicates the upstream ticketing systems into Spanner via time-budgeted, resumable, rate-limited batches with per-page checkpoints and periodic reconciliation, exposed as live SQL views and RPC APIs. Backfilled 6 years of history at 100% parity with the source systems.
- **Real-Time Network Observability Platform:** Owned the Go/App Engine backend and Angular frontend of a near-real-time dashboard showing availability of every device on Google's global enterprise network (hundreds of sites). Authored the approved database re-architecture that collapsed 11 tables into 5 and 9 scheduled jobs into 1, enabling new dashboards without schema changes; later added connection pooling to eliminate connection-exhaustion incidents and self-service CSV exports over telemetry refreshed every 5 minutes.
- **WAN Outage Tracking at Scale:** Re-architected the chronic-circuit tracking service as a Go microservice plus daily ETL, running 500-worker distributed SQL queries to flag repeatedly failing circuits. Automated bi-weekly escalation sweeps that file deduplicated high-priority bugs, notify ISP vendors, and track a 30-day resolution SLO with aging reports.
- **Internal Tool Health Monitoring Platform:** Co-authored the technical design (approved by 2 approvers and 4 reviewers) and built a monitoring platform spanning a browser extension, an App Engine web app, and Datastore that validates external links, tracks usage via GA4, and auto-files bugs to link owners when issues are detected; moved its analytics assets to signed, weekly auto-deployed releases.
- **Legacy Pipeline Decommissioning:** Retired dead pipeline code and manual exclusion lists from a network-device OS compliance system covering tens of thousands of devices, removing 1,700+ lines of legacy code and bringing the system to its planned decommission with no data-integrity regressions.

Xendit | Senior Software Engineer | May 2022 – Nov 2022

- **Fraud Detection Backend (Go):** Developed and improved Go backend services for Xendit's configurable transaction fraud-detection rules system, strengthening rule evaluation to catch fraudulent payment activity while minimizing false-positive blocks on legitimate transactions.

Concentrix (contracted to Google, Enterprise Networking) | Senior Software Engineer (Feb 2020 – May 2022) · Software Engineer (Feb 2018 – Feb 2020) | Feb 2018 – May 2022

- **SLO Automation Engine:** Core contributor to the service that computes availability for Google's global enterprise network against a strict multi-nines availability SLO, including wireless access-point downtime computation and monthly auto-filed SLO-violation and chronic-site post-mortem tickets. Designed the phased annotation model that lets operators reclassify downtime by cause, and the CI/CD pipeline that introduced separate dev/prod environments for its analytics reports.
- **Network Performance Dashboards:** Designed and shipped Angular/TypeScript dashboards visualizing WAN circuit availability and ISP vendor performance for the network operations organization; co-authored the vendor-performance dashboard proposal and its circuit-audit approval workflow.
- **Endpoint Monitoring Library:** Built a Go middleware library that wraps API and cron handlers and auto-files deduplicated bugs on panics or HTTP errors; adopted by 3 production services and still in use.
- Promoted to Senior Software Engineer in 2020; earned Google TypeScript Readability within the first month on the project.

IBM | Junior Application Developer | Aug 2016 – Feb 2018

- Delivered application features on enterprise client engagements; completed IBM Agile Explorer, Design Thinker, and Blockchain Essentials programs.

EDUCATION

Mapúa Institute of Technology | B.S. Information Technology | 2011 – 2016