

Romel De Aquino Silvano

SYSTEMS & AI ENGINEER

Full-stack and integration engineer who **builds and operates** production platforms — APIs, signed webhooks, and AI-integrated automation on self-managed Linux.

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AVAILABLE FOR FULL-TIME REMOTE · 40 HRS/WEEK · OVERLAP WITH US & EU HOURS

PLATFORM & INTEGRATION

- ◆ REST & GraphQL API integration
- ◆ Signed webhooks (HMAC-SHA256)
- ◆ OAuth 2.0, JWT, scoped API keys
- ◆ Idempotency & dedupe design
- ◆ Retry, backoff & dead-letter queues
- ◆ Multi-tenant data modelling
- ◆ Rate limiting & quotas
- ◆ Schema migrations & versioning

STACK

- ◆ Python · FastAPI · Pydantic
- ◆ Node.js · TypeScript · Fastify
- ◆ React · Next.js · TailwindCSS
- ◆ PostgreSQL · SQLite · Prisma
- ◆ Docker · nginx · systemd · Linux
- ◆ GitHub Actions CI/CD
- ◆ n8n workflow automation
- ◆ LLM & vision API integration
- ◆ Meta Graph API · Google Workspace

AI & AUTOMATION

- ◆ Multi-provider LLM routing & fallback
- ◆ Prompt design & response guardrails
- ◆ Language detection & localisation
- ◆ Lead capture into CRM pipelines
- ◆ Scheduled jobs, watchdogs & alerting

CREDENTIALS

- ✓ Self-hosted Linux/VPS operations — nginx, systemd, Docker, TLS
- ✓ Meta Graph API & Messenger Platform integration
- ✓ STCW 2010 Basic Safety Training (BST)
- ✓ Proficiency in Survival Craft & Rescue Boats

LANGUAGES

English **PROFESSIONAL**
Tagalog **NATIVE**

References and live system walkthroughs available on request.

Professional Profile

Engineer who ships and then **operates** — running live production services on self-managed Linux VPS: multi-tenant FastAPI and Node platforms, an AI Messenger bot handling real customer conversations, and Google Workspace / Meta Graph API pipelines. Comfortable across the whole integration surface — **signed webhook ingress, OAuth token lifecycles, retry with backoff, idempotent delivery, schema evolution** — backed by 13 years of operational discipline.

13

YEARS IN HIGH-STANDARD OPERATIONS

19

PRODUCTION SERVICES DEPLOYED & MONITORED

10+

FULL-STACK PRODUCTS SHIPPED LIVE

4

THIRD-PARTY API INTEGRATIONS LIVE

Experience

Freelance Automation & Systems Engineer

2024 - Present

Self-employed · Remote

- ▶ Build and operate production multi-tenant platforms (FastAPI/Node + PostgreSQL/SQLite) on hardened Linux VPS — nginx, systemd, automated TLS.
- ▶ Built an AI Messenger bot on the Meta Graph API — webhook verification, token lifecycle automation, intent routing, multilingual replies — plus Google Workspace and Cloudflare integrations.
- ▶ Own the operational surface end to end: structured logging, health checks, uptime alerting, scheduled backups, incident recovery.

Houseperson

2025 - 2026

Disney Cruise Line

- ▶ Delivered stateroom and public-area service to strict hygiene standards in a 6,700-guest operation — documented procedures, zero tolerance for missed steps.
- ▶ Coordinated across stewards, laundry, and engineering in a multilingual crew — clear handovers, written logs, escalation on defects.

Housekeeping Supervisor

2012 - 2024

Resorts World Cruises · Magsaysay Maritime — 11 contracts, premium cruise service

- ▶ Ran daily operations for a multi-section team — scheduling, quality inspection, supply control, corrective action on defects.
- ▶ Trained crew on procedure and safety standards — the same documentation discipline now applied to deployment runbooks and incident response.

Selected Work

intake-gateway

Open Source

TypeScript · Fastify · SQLite (WAL) · HMAC · Docker

- ▶ Signed webhook ingress — HMAC-SHA256 over raw bytes, replay window, distinct rejection reasons.
- ▶ Idempotent ingestion enforced in the database: a vendor retry creates **no duplicate lead**.
- ▶ Retry with backoff and jitter, dead-letter queue and replay; 16-section live E2E suite, 40 unit tests.

Sultan's Tech.AI

In Production

Python · FastAPI · Meta Graph API · LLM routing

- ▶ Webhook bot answering real customers with language-aware AI replies and intent routing.
- ▶ Token-health watchdog plus provider fallback — a rate-limited model **never drops a message**.
- ▶ Lead capture into a Google Sheets CRM pipeline.

Practice & Operations Platforms

In Production

FastAPI · SQLite · nginx · systemd · Vanilla JS

- ▶ Clinic and dental practice systems — appointments, billing, patient portals.
- ▶ Inventory with automatic supply deduction on treatment.
- ▶ HR and field-ops apps with localised payroll rules and RBAC — built end to end.

EDUCATION

BS Nursing

Misamis University · 2007-2011

Secondary Education

NMSCST · 2004-2007

WHY ME

I run the systems I build — and I can show you the code

Live systems, real failure modes. Walk through the intake-gateway repo — signature verification, retry and dead-letter behaviour — plus a live demo of the AI bot.