MARCELINO M. TURANGAN

AI Systems Integrator | Full-Stack Web & PWA Developer | Linux & Cloud Infrastructure Ops

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PROFESSIONAL SUMMARY

Hands-on Linux practitioner (3+ years) and AI systems builder specializing in autonomous multi-agent integrations, full-stack Web/PWA engineering, and resilient self-hosted cloud infrastructure. Proven track record shipping open-source mobile AI clients, real-time messaging gateways (WhatsApp, Discord, Telegram), and production ARM64 Linux server fleets running 10+ automated services over zero-trust mesh networking, backed by 3 years of high-autonomy solo operational ownership.

TECHNICAL SKILLS

AI & Agent Engineering: Multi-Agent Orchestration (Hermes Agent, Antigravity CLI), Self-Hosted LLM Routing & Failover (9Router), OAuth Session Watchdogs, Vision & Audio/TTS Pipelines, Parallel Web Search

Web & Mobile PWA: TypeScript, Next.js (App Router), React, React Native / Expo Web (PWA & WebAPK), Tailwind CSS, Framer Motion, WebSocket Real-Time Streaming

Backend & Databases: Node.js, Python 3, Prisma ORM, PostgreSQL, SQLite (FTS5), Reverse Proxies (Brotli/Gzip), REST & WebSocket APIs, Baileys WA Protocol, discord.py

Linux, Cloud & DevOps: Arch-based Linux (EndeavourOS, CachyOS), Ubuntu Server LTS, Oracle Cloud ARM64, systemd, Docker & Docker Compose, Tailscale Zero-Trust Mesh, SSH Hardening, Fail2ban, Cron Automation, Git/GitHub

EXPERIENCE

Independent AI Systems & Full-Stack Builder
3+ Years – Present

Self-Employed / Open Source · Nusantara (IKN), Indonesia

- Architect, develop, and operate end-to-end AI agent gateways, full-stack web/PWA applications, and self-hosted Linux/cloud infrastructure from initial system design through 24/7 production ops.
- Publish and maintain open-source tooling on GitHub covering mobile-first AI control centers, OAuth session auto-healers, and full-stack personal finance web platforms.

Solo Barista & Cafe Operations
3 Years – Present

Independent Cafe Operations · IKN Ring Area, Indonesia

- Independently manage end-to-end daily cafe operations including inventory restocking, beverage production, quality assurance, and customer service with full operational autonomy.
- Maintain structured restock workflows and consistent execution under solo-operator pressure, translating directly into disciplined incident ownership, reliability, and resource management.

SELECTED TECHNICAL PROJECTS

Hermes Cockpit — Mobile-First PWA Client
github.com/Marcel-mux/hermes-cockpit

React Native / Expo Web · TypeScript · Tailwind CSS · Node.js · WebSockets · Docker

- Built an open-source mobile-first Progressive Web App (PWA/WebAPK) control center for Nous Research Hermes Agent with standalone mobile installability and Docker Compose deployment.
- Engineered a zero-dependency Node.js reverse proxy (server.mjs) featuring on-the-fly Brotli/Gzip compression, live WebSocket token streaming, collapsible live reasoning accordions, and isolated profile scoping.

Antigravity Discord Gateway — CLI-to-Discord Bridge
Python 3 · discord.py · systemd

SQLite FTS5 · Persistent Sessions · Multi-Server @mention Gating

- Built a persistent Discord gateway controlling Google Antigravity CLI (agy) remotely with per-channel session persistence and code-block-safe real-time output streaming.
- Implemented multi-server @mention gating with missed-message backfill, cross-channel #mention context retrieval, FTS5 session search, attachment ingestion, and interactive model/quota controls.

Autonomous WhatsApp & Telegram Multi-Agent Engine — Node.js · Baileys WS · 9Router

Hermes Gateway · Multi-Persona Routing · Vision & Audio/TTS · systemd

- Architected self-hosted multi-agent messaging bots connecting WhatsApp and Telegram to a local multi-provider LLM gateway (9Router), removing recurring third-party SaaS chatbot dependencies.
- Integrated multi-persona routing, image vision analysis, audio/TTS pipelines, and parallel web search running continuously as systemd background daemons.

Antigravity Guard & LLM Bridge Tooling — Marcel-mux/antigravity-guard-9router

Python 3 · Node.js · OAuth Lifecycle · SQLite Health Probes · systemd

- Developed a Python + systemd watchdog daemon monitoring OAuth session health inside 9Router via SQLite and API probes to detect and recover expired or stalled sessions automatically.
- Built local HTTP proxy bridges (agentrouter-proxy, gemini-web2api) handling custom header injection and WAF mitigation for uninterrupted LLM inference.

FinPulse — Personal Finance & Analytics Platform — github.com/Marcel-mux/FInPulse-Project

Next.js 14 · TypeScript · Prisma ORM · PostgreSQL · Tailwind CSS · Vercel

- Built a full-stack financial web platform tracking multi-account net worth, credit limits, and installments with interactive analytics charts, an AI Q&A chatbot, and Telegram notifications.

Self-Hosted Multi-Node Linux & Cloud Fleet — Oracle Cloud ARM64 · Tailscale Mesh

Ubuntu 26.04 LTS · 4 OCPU / 24 GB RAM · 10+ systemd Services · Fail2ban

- Provisioned and operate a production Oracle Cloud Ampere A1 server across a 7-node Tailscale zero-trust mesh spanning cloud VPS, Arch-based workstations, Android Termux, and ephemeral sandboxes.
- Maintain 10+ active systemd services (including a 22-connection multi-provider LLM gateway with automated failover combos), hardened with SSH key policies, Fail2ban, RAM/swap alerts, daily health reports, and scheduled security audits.

EDUCATION & LANGUAGES

Manado State Polytechnic (Politeknik Negeri Manado) — North Sulawesi, Indonesia

Languages: Indonesian (Native) · English (Technical & Working Proficiency)