

RAVI ARNAN IRIANTO

Fullstack Developer & AI Engineer · Sidakarya, Denpasar Selatan, Bali 80224
+62 877-8267-4878 · raviarnankeren@gmail.com · linkedin.com/in/raviarnan · raviarnan.dev · github.com/ravi-arnan

PROFESSIONAL SUMMARY

Fourth-year Information Technology student at Udayana University (GPA 3.65/4.00) who has just finished a paid fullstack developer internship at Unicorn Food and Services. There I built a production people and culture platform: a TypeScript monorepo covering a React web app and PWA, a React Native Android app, a Node.js API and PostgreSQL, with 78 merged pull requests, plus 30 merged upstream in projects such as moby/buildkit and htop. I graduated from the Tempa led by Dicoding Artificial Intelligence programme and was awarded Best Capstone Project. Outside work I build LLM-backed systems, including retrieval-augmented generation over Indonesian legal documents, multi-agent orchestration pipelines and agentic developer tooling. I am comfortable owning a feature from database schema through to deployed UI.

SKILLS

Fullstack: TypeScript, React, React Native, Next.js, Node.js, Python, PHP/Laravel, REST APIs, PostgreSQL, Redis, SQL, PWA

AI & LLM Engineering: RAG pipelines (chunking, embeddings, retrieval eval), multi-agent orchestration, LLM API integration and provider fallback routing (OpenRouter, NVIDIA NIM, Groq), local LLM deployment (Ollama), prompt and token-cost optimisation, agentic tooling (Claude Code headless, MCP)

Data & ML: IndoBERT and transformer embeddings, sentiment analysis, text classification, data labelling pipelines (Label Studio), pandas, scikit-learn, clustering

Infrastructure & Tooling: Docker and Docker Compose, PM2, Git, Linux (Debian, Ubuntu, Rocky), CI-oriented workflows, n8n workflow automation, Vercel deployment

Also: Flutter/Dart, Stellar JS SDK, application security fundamentals (penetration testing, vulnerability assessment), graphic design

Languages: Indonesian (native), English (professional working proficiency)

EXPERIENCE

Fullstack Developer Intern (Paid), Unicorn Food and Services Mar 2026 – Aug 2026
PeopleOS, a production people and culture platform. Ubud, Bali (hybrid)

- Worked across a multi-repo TypeScript product (React web/PWA, React Native Android app, Node.js API, PostgreSQL, Redis) and delivered **78 merged pull requests** covering feature work, bug fixes and refactoring, through to release-ready state.
- Built core workforce features: geofenced clock in/out, automated shift scheduling, role-based access control, shareable staff onboarding forms, and a push-notification system with WhatsApp fallback delivery.
- Migrated the full company org structure into the platform from source HR data, modelling departments, titles and reporting lines.
- Owned staging and production deployment with Docker Compose and PM2. Led refactors that broke 1,500 to 2,000-line modules into per-domain components, which cut review surface and regression risk.

Cybersecurity Intern, PT Telekomunikasi Indonesia Tbk (Telkom), Regional III Jan 2026 – Mar 2026
Service Operations & Support. Surabaya

- Tested internal Telkom web systems for misconfiguration, broken access control and authentication weaknesses. That work still shapes how I design auth and permissions in the products I build.
- Wrote technical reports on findings, risk levels and remediation steps that were adopted by the responsible engineering teams.

Teaching Assistant, Computer Networks, Udayana University 2025

- Ran practicum sessions on LAN/WLAN configuration, packet analysis and Linux system administration for undergraduate cohorts.

AI & SOFTWARE PROJECTS

RAG System for Indonesian Legal & Tax Documents 2026

- Built a retrieval-augmented generation pipeline over Indonesian tax regulation PDFs. **776 ingested chunks**, IndoBERT embeddings running CPU-only, generation served through OpenRouter behind an OpenAI-compatible interface.
- Added a golden-query retrieval regression suite, plus a throttled ingest path so embedding runs stay within commodity-hardware limits.

Agentic OS, a Local Agent Dashboard

2026

- Shipped v1 of a web dashboard wrapping a headless coding agent, with four one-click automations (daily briefing, repo and inbox status sweep, session journaling, quick capture) and real-time API-cost and productivity metrics.
- Instrumented scheduled runs after finding that failed jobs were being recorded as successful, then fixed the reporting path and verified it against live scheduled executions.

Data-Driven Student Comprehension Detection System (Best Capstone Project)

Feb 2026 – Jun 2026

Team capstone (TP-G005), Tempa led by Dicoding. Artificial Intelligence Learning Path

- Built the backend service for a quiz-based system that infers student comprehension from assessment results. Selected as **Best Capstone Project** of the cohort.

Pact, an On-Chain Commitment Staking App (APAC Stellar Hackathon, solo)

2026

- Next.js 16, TypeScript and Stellar JS SDK app where groups stake USDC on a running-distance goal, and payouts settle automatically from GPS-verified sessions. Working end to end on testnet: create, stake, run, settle, refund.
- Enforced two guarantees at ledger level rather than in application code. Payouts require an oracle multisig co-signature, and every stake is a time-locked claimable balance that its owner can reclaim after the deadline.

Multi-Agent LLM Research Pipelines

2026

- Designed a two-stage screener and agent pipeline that filters roughly 100 candidates deterministically before invoking LLM agents, which cut inference spend on a workload costing about 35k tokens per agent iteration.
- Routed all model calls through a self-hosted OpenAI-compatible proxy with automatic cross-provider fallback, so rate limits fail over mid-run without code changes.

Open-Source Contributions

2026 – Present

- **30 merged pull requests across 12 public repositories**, in Go, C, Python, PHP and TypeScript codebases I had not seen before.
- Upstream infrastructure projects: **moby/buildkit** (Docker's build engine, taught *buildctl* to read a valueless build-arg from the environment), **containerd/nerdctl** (stopped Compose projects that avoid CNI from requiring CNI plugins), **htop** (released CPU data on hot-unplug) and **prometheus-community/systemd_exporter** (added a *systemd_version* metric). Further merged work in floci, shimmie2, fluxcast and get-md.
- Also shipped HabitGrid (a Flutter habit tracker with **72 passing tests**), Apex Stradale (a React Three Fiber 3D showcase, live on Vercel) and several client and organisation websites.

EDUCATION

Udayana University, Bachelor of Information Technology, GPA 3.65/4.00.
Jimbaran, Bali

2023 – Present

CERTIFICATIONS

- Artificial Intelligence Learning Path, Tempa led by Dicoding, 2026 (full graduate, 4-month intensive)
- Alibaba Cloud Certified Developer, 2024 · Code Generation & Optimization using IBM, Hacktiv8, 2025
- Intermediate & Fundamental Cybersecurity, Digital Talent Scholarship (Kominfo), 2025
- Additional coursework via Dicoding, Sololearn and MySkill (Java, SQL, Kotlin, Data Science, Web3, AI).

ACHIEVEMENTS & LEADERSHIP

- **Best Capstone Project**, Tempa led by Dicoding (AI path), 2026 · **Awardee**, BSI Scholarship Inspirasi Batch 4, 2024
- **Facilitator**, Google Skills Arcade 2026 (Google Cloud × Dicoding), chosen by Dicoding to guide participants across Indonesia through Google Cloud skill-badge labs
- **Finalist**, Pilmapres (Outstanding Student Selection), Information Technology, 2024 · **1st Place**, SPORTI Chess Competition, 2024 and 2025
- **General Secretary**, HMI Denpasar Branch (2025 to present) · **Member, Commission V**, DPM PM Udayana (2025) · **Head of Press & Creative Media**, UKKI FPMI Udayana (2025) · **Tech Buddy**, Google Developer Student Club Udayana (2023 to 2024)