

RIFQI SIGWAN NUGRAHA

Junior AI Developer | Full-Stack AI Systems & Pipeline Debugging

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Remote: 20 hours/week | 12:00-16:00 Sydney overlap | Available within one week

PROFILE

Information Technology graduate and hands-on AI/full-stack developer who builds and debugs working systems across Next.js, React, TypeScript, Supabase/Postgres, Python, and Flutter/Firebase. Daily Claude Code user with a systematic workflow: trace failures, isolate root causes, test fixes, and apply human review before shipping.

SELECTED BUILDS & DEBUGGING EVIDENCE

CareCanvas - Human-Gated AI Illustration Pipeline | [carecanvas.vercel.app](#) | [Repository](#)

- Built and deployed a deterministic Next.js 16/TypeScript demo coordinating brief and safety review, a mandatory human approval gate, img2img/inpainting paths, visual QA, visible traces, and one bounded corrective retry.
- Implemented environment-gated Claude, fal.ai Flux, Supabase, and Inngest adapters, including a 24-hour durable approval wait, owner-scoped RLS migration, and webhook signature/replay tests; **19/19 tests**, lint, strict TypeScript, and production build pass.

NALAR Decision Intelligence | [new-nalar.vercel.app](#) | [Repository](#)

- Built and deployed a role-based decision-support prototype with Next.js 16, React 19, strict TypeScript, server-side Supabase/Postgres adapters, and an optional grounded Gemini assistant.
- Designed deterministic fallbacks for missing providers, server-side data boundaries, and verifiable transaction flows; **24/24 tests pass**, with TypeScript and production build checks verified.

Confidential Remote Client - Flutter/Firebase Mobile App | 2026

- Traced a live-video interaction failure through a two-device test and device logs, proving that a disabled Firestore API (not video transport or security rules) blocked comments, likes, gifts, and viewer updates; separated infrastructure blockers from app defects in the handover.
- Fixed a repeated story-viewer crash caused by an API model type mismatch and redundant endpoint call; verified four repeated opens without a crash. Removed a comment re-render loop using post-frame execution, de-duplication, and a freshness window.

RELEVANT EXPERIENCE

Research Assistant - Hardware & Embedded System Lab, Telkom University | Sep 2024-Jan 2026

- Built and deployed IoT monitoring and flood early-warning work spanning sensors, data workflows, and a real-time dashboard for a community of approximately 300 households.
- Conducted applied AI/IoT research and published a first-author conference paper available in [IEEE Xplore](#).

HOW I WORK & TECHNICAL TOOLKIT

AI engineering: Claude Code (daily), role-based task decomposition, prompt iteration, trace/log analysis, grounded outputs, and human QA gates; Gemini API; environment-gated Claude, fal.ai Flux, and Inngest adapters in CareCanvas.
Product engineering: Next.js, React, TypeScript, Python, REST APIs, WebSockets, Supabase, PostgreSQL, Flutter, Firebase/Firestore, Vitest, Git, Docker, and GCP foundations.
Delivery system: Use a role-based Claude Code workflow spanning analysis, design, backend, frontend, data, and QA/security; integrate outputs and validate the combined result before delivery.

EDUCATION

Bachelor of Information Technology, Telkom University | Sep 2022-Jan 2026

GPA: **3.80/4.00** | Bank Indonesia Scholarship Awardee, 2024-2026