FRANS DHITO ADITYA WIBOWO

Principal Full Stack & AI Automation Engineer | React, Next.js, React Native, Python/FastAPI, Node.js & Cloud

Sleman, Yogyakarta, Indonesia | Remote B2B Contractor & Full Stack Product Architect (UTC+7 / EU / US / ANZ Overlap)

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EXECUTIVE SUMMARY

Principal Full Stack and AI Automation Engineer with 6+ years of production experience designing, building, and shipping end to end web applications, cross platform mobile apps, real time communication systems, and autonomous AI workflows for international clients in New Zealand, the Netherlands, and Saudi Arabia. Expert across the modern full stack (**Next.js 15, React 19, TypeScript, React Native / Expo, Node.js, Python FastAPI, Go, PostgreSQL, Redis, and Docker/Kubernetes**). Solely architected and shipped an enterprise cross platform WebRTC telephony & CRM suite (**iOS CallKit/PushKit, Android TelecomManager, and React Web PWA**) and multi region logistics/financial automation pipelines (**Fortnox, Mintsoft, FedEx APIs, n8n, and LLM Agents**). Operates a private **4x NVIDIA RTX A6000 (192GB VRAM)** AI inference cluster to accelerate full stack delivery, automated testing, and production AI integration.

CORE TECHNICAL COMPETENCIES

- **Frontend & Cross Platform Mobile:** React 19, Next.js 15 (App Router, SSR, Server Actions), TypeScript, JavaScript (ES6+), Tailwind CSS, React Native, Expo, Progressive Web Apps (PWA), Native iOS Bridges (Swift/ObjC, CallKit, PushKit), Native Android Bridges (Kotlin/Java, TelecomManager, FCM), Real Time WebRTC & WebSockets, State Management (Zustand, Redux, React Query).
- **Backend, APIs & Databases:** Python (FastAPI, Django, AsyncIO, Pydantic), Node.js (Express, NestJS), Go (Golang), RESTful APIs, GraphQL, gRPC, PostgreSQL (Complex Schema Design, Indexing, Query Optimization), MongoDB, Redis (Caching, Pub/Sub, Queues), Supabase, Prisma / SQLAlchemy.
- **AI Engineering, LLM Agents & Workflow Automation:** Autonomous AI Agents (OpenAI, Claude API, Gemini, LiteLLM, vLLM), RAG Pipelines, Faster Whisper Speech to Text, Prompt Engineering & Structured Outputs, n8n Workflow Automation, Deep Web Scraping (Playwright, Scrapling), ERP & Accounting Integrations (Fortnox, Mintsoft, FedEx, MyFreight, Stripe, OAuth2/SSO).
- **Cloud, DevOps & Production Reliability:** AWS (EC2, EKS, S3, CloudFront, RDS), Docker, Kubernetes, Linux Administration, Nginx, CoTURN, GitLab CI / GitHub Actions, Terraform, Automated Testing & Security (Playwright, Pytest, RBAC, OAuth2/OIDC).

PROFESSIONAL EXPERIENCE

PT Ruang Zenith Nugraha (RZ Technologies) | Remote (New Zealand & Netherlands Clients)

Principal Full Stack & AI Automation Architect (B2B Contract) | *Aug 2025 - Present*

- **Cross Platform Enterprise Telephony & Web/Mobile Suite (Auckland, New Zealand Client):** Solely engineered a full stack corporate communications platform replacing legacy PBX systems across **Native iOS (CallKit & PushKit), Native Android (TelecomManager & FCM), and React/Expo Web PWA** with Google/Microsoft OAuth2 SSO, QR provisioning, real time WebRTC audio routing, and PostgreSQL backend APIs.
- **AI Call Intelligence & CRM Automation Platform (FastAPI + React + Whisper + Claude AI):** Built an end to end AI transcription, sentiment analysis, and automated CRM synchronization middleware connecting live telephony streams to **Faster Whisper GPU inference, Claude LLM structured extraction, and customer portals**.
- **Enterprise Logistics, ERP & Financial Automation (Amsterdam, Netherlands Client):** Architected full stack dashboards and zero touch automation pipelines in **Python, TypeScript, and n8n** integrating **Mintsoft WMS, multi region FedEx APIs, MyFreight, and Fortnox accounting APIs**, eliminating 90% of manual invoicing and order reconciliation.
- **Full Stack Security & Multi Agent SaaS Platform (RZ Sensing):** Built a **Next.js 15 / React 19 / TypeScript** command center featuring real time multi agent orchestration, strict Multi Tenant RBAC, and automated security telemetry.

Jivaloka Prasanna Sanasi (Interactive Media & Game Subsidiary of PT Carakan) | Yogyakarta & Yanbu, Saudi Arabia

Lead Full Stack & Real Time Streaming Infrastructure Engineer | *Dec 2022 - Aug 2025*

- **RCJY Yanbu Virtual City Web Portal & Pixel Streaming Platform (Saudi Arabia):** Engineered the full stack web frontend, real time WebRTC signaling/matchmaking backend (**Node.js, Go, Python**), and **10x NVIDIA RTX A6000 GPU** Unreal Engine Pixel Streaming cluster delivered for the **Royal Commission for Jubail and Yanbu (RCJY)**.
- **Interactive Web Applications & Multiplayer Services (Jelajah Nusantara):** Built responsive web dashboards, player authentication & session APIs, and **PostgreSQL / MongoDB / Redis** persistence layers supporting high concurrency real time users.

PT Carakan Sadhana Dirgantara | Yogyakarta, Indonesia

Full Stack Software & Cloud Platform Engineer | *Jun 2020 - Aug 2025*

- **Enterprise Web Portals & Control Plane APIs:** Designed and shipped full stack internal and client facing web applications using **React, TypeScript, Node.js, Python (FastAPI/Django), Go, and PostgreSQL/Redis**, backed by automated **GitLab CI/CD and Docker/Kubernetes** deployments.
- **High Availability Cloud & Data Infrastructure:** Built and maintained production **AWS, Kubernetes, and 6 Node OpenStack (2.26 TB RAM, 63 TB NVMe Ceph)** environments, reducing deployment lead times by **50%** across engineering teams.

CERTIFICATIONS

- **Linux Foundation LFS162:** Introduction to DevOps & Site Reliability Engineering
- **Harness Certified:** Continuous Integration Developer
- **Linux Foundation LFC108:** Cybersecurity Essentials & Foundations of Cybersecurity