

FENY SUHARYONO, S.Si

AI Ecosystem Architect · LLM Agents & Autonomous Systems · ML Platforms

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PROFESSIONAL SUMMARY

AI Ecosystem Architect with 20+ years of engineering experience, specializing since 2024 in production-grade agentic AI systems. Graduate of Bandung Institute of Technology (ITB, Physics). Founder of Aura AI — independently architected and shipped 6 end-to-end AI products: autonomous trading ecosystems, self-improving ML platforms, enterprise analytics, and conversational AI tools, backed by published technical research and a live engineering journal.

Core principle: *AI explains, math computes. Every number is deterministic. No hallucinated statistics. Ever.*

CAREER HIGHLIGHTS

- Shipped 6 production AI systems solo, end-to-end: ~16,500+ lines of code, 914 automated tests, 49 API endpoints across the portfolio.
- Designed the ACE (Analyze-Curate-Enrich) self-improving architecture — achieved 94.3% anomaly detection accuracy and 70% reduction in data preparation time in pilot testing.
- Built Antigravity Trading Suite — autonomous Forex + Crypto ecosystem running 24/7 with zero silent failures, Guardian monitoring, and live Next.js control panel.
- Published 2 technical white papers and maintains The Aura Journal engineering blog on AI architecture and systems design.
- Managed \$3M+ infrastructure project (fiber optic, PT. Telkom Access) and \$5M+ strategic budgets across prior executive roles.
- Pioneer of autonomous IoT monitoring systems (2008) — BTS Monitoring System and Early Warning Systems improving MTBF by 30%, predating the modern AI era.

CORE TECHNICAL SKILLS

AI / LLM	LLM Integration, LangChain, LangGraph, RAG, AI Agents, Agentic Workflows, pgvector, Ollama, OpenAI API, Groq, Hugging Face, MLOps
Backend	Python, FastAPI, Go (Golang), REST API Design, Polars, Pandas, PostgreSQL 17, MongoDB, Redis, pgvector, Docker
Frontend / Infra	Next.js, TypeScript, JavaScript, Linux Server, PM2, Cloudflare Tunnel, Tailscale, GitHub Actions (CI/CD)
Trading Systems	Algorithmic Trading, Forex Automation (IG Group API), Crypto Execution (Hyperliquid), Sentiment Analysis, ML Predictions
IoT / Infra	NodeRed, MQTT Sparkplug, Edge AI, Predictive Maintenance, BTS Monitoring, Fiber Optic (GPON/DWDM), AWS/Azure

PROFESSIONAL EXPERIENCE

Aura AI — aura-aitech.com

Jan 2024 – Present

Founder & Lead AI Architect

- Independently architected and shipped 6 production-grade AI systems end-to-end: Agent Scientist Studio, Aura Data Platform (ACE), Forex Sentiment AI Trader Bot, AI Crypto Bot, HR AI Demo, and Travel Dream Simulator.
- Designed ACE (Analyze-Curate-Enrich) — self-improving agentic AI with double-loop learning, pgvector embeddings, and RAG; reduced data cleaning time by 70% in pilot testing. Backed by published technical white paper.

- ❑ Built Antigravity Trading Suite: autonomous Forex + Crypto ecosystem with Go-based data pipeline, Guardian monitoring (real-time alerting, PM2, Cloudflare + Tailscale), and Next.js control panel — operational 24/7, zero silent failures.
- ❑ Aura Data Platform (ACE): ~16,500 LOC, 914 automated tests, 49 API endpoints, 5 forecasting methods with confidence intervals, self-learning per-user knowledge base via PostgreSQL 17 + pgvector.
- ❑ Implemented provider abstraction layer with Fernet-encrypted API keys — LLM vendor switching (Groq/OpenAI/Ollama) is a config change, not a rewrite.
- ❑ Published 2 technical research papers; maintains The Aura Journal engineering blog on AI system architecture and design decisions.

CV. Torche Indonesia

Jan 2015 – Present

Supervision Expert / Senior Project Manager

- ❑ Advisory (2016–Present): Expert consulting on Agentic AI integration and Predictive Maintenance for enterprise industrial clients.
- ❑ Project Leadership (2015–2016): Directed Sukamiskin Prison Food Supplier Project — complex vendor integrations, multi-stakeholder government/private logistics.

PT. Profex Pilar Utama

Jan 2013 – Jan 2015

Director

- ❑ Secured and executed high-scale fiber optic installation with PT. Telkom Access, Bandung–Sukabumi corridor.
- ❑ Managed \$3M+ budget and 15+ engineering teams with 100% adherence to project timelines and safety regulations.

PT. Fixious Global Indonesia

Jan 2008 – Dec 2012

CEO & Founder

- ❑ Built proprietary autonomous BTS Monitoring System for national telecom towers — autonomous systems engineering predating the modern AI era.
- ❑ Developed Early Warning Systems (EWS) improving MTBF by 30% across deployed IoT sensor networks. Stack: NodeRed · MQTT · Industrial Sensors · Linux.

KEY PORTFOLIO PROJECTS (2024–2026)

Agent Scientist Studio

- ❑ Self-improving ML platform: messy CSV in, deployed ML model out — no code required. ACE architecture with double-loop learning, AutoML (5 algorithms + Optuna tuning), SHAP explainability, one-click REST API deployment.
- ❑ Backed by published technical white paper. Stack: FastAPI · PostgreSQL/pgvector · Ollama · Groq.

Antigravity Trading Suite

- ❑ Complete autonomous trading ecosystem: Forex Sentiment Bot + AI Crypto Bot with real-time signal analysis, Go-based high-concurrency data pipeline, live Next.js Control Panel with paper trading metrics.
- ❑ Guardian monitoring, PM2, Cloudflare Tunnel + Tailscale. Operational 24/7. Stack: Python · Go · Next.js · Hyperliquid API · IG Group API · Linux.

Aura Data Platform (ACE)

- ❑ Enterprise AI analytics: natural language queries, 5 forecasting methods, narrative PDF reports. ~16,500 LOC, 914 automated tests, 49 API endpoints. 94.3% anomaly detection accuracy. Live at aura-aitech.com.

HR AI Demo | Travel Dream Simulator

- ❑ HR AI: RAG-powered conversational assistant automating 60% of routine HR inquiries. Travel Simulator: AI trip planning with hidden-gem algorithm, 45% improvement in trip satisfaction.

EDUCATION

Bachelor of Science in Physics (S.Si)

1996 – 2001

Bandung Institute of Technology (ITB)

Thesis: Development of Parallel Interface Systems for Matrix Multiplication (Parallel Computing) — foundational to distributed systems and modern LLM inference architecture.

CERTIFICATIONS

Python for AI & Data Science — Indonesia AI (PT. Teknologi Artifisial Indonesia)	Jan 2023
Advanced Project Management (PMP-Aligned) — Kelas.Work	Jan 2023
Machine Learning Specialization — Kaggle — Intro to ML, Python for Data Science	2023

LANGUAGES

English — Professional Working Proficiency	Indonesian — Native
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