Kurniadi Ahmad Wijaya

Forward Deployed AI Engineer - Jakarta, Indonesia

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AI and Software Engineer with 4+ years building production systems across digital banking, fintech, and enterprise SaaS. Currently delivering Azure-native AI platforms for enterprise clients including SMBC Indonesia, Mitsubishi Motors, and Sari Roti: multi-agent RAG on Microsoft Agent Framework, realtime voice AI, and LLM-powered code security. Strong backend foundation in microservices and event-driven systems, with hands-on Azure operations (Bicep, Managed Identity, Key Vault, CI/CD). Focused on making LLM systems production-reliable through evaluation, guardrails, and observability.

WORK EXPERIENCE

Technical Consultant Software & AI at PT Mitra Integrasi Informatika (Metrodata)

(Feb 2026 - Now)

A leading enterprise IT, cloud, data, cybersecurity, and AI solutions provider under Metrodata Group.

- Led end-to-end delivery of Azure-native AI platforms for 12+ enterprise clients (like SMBC Indonesia, Mitsubishi Motors, Turangga Resources, Sari Roti) from architecture to production, and built a reusable full-stack AI template adopted across 10+ client projects.
- Built multi-agent RAG assistants on Microsoft Agent Framework with hybrid search (Azure AI Search, Cosmos DB), citation gating, Prompt Shields, and domain query rewriting, cutting prompt tokens by 23%. Migrated an existing assistant from LangGraph to Agent Framework.
- Engineered a realtime voice AI call center on Azure OpenAI Realtime with barge-in, human handoff, and crash recovery. Cut interruption latency 10x (2s to 0.2s) and led a live migration to self-hosted LiveKit with tested failover.
- Built an AI code security platform running 8 scanning engines across 100+ repositories, with LLM triage, isolated scan workers, and an autonomous agent that opens fixed PRs. It has reviewed 540+ PRs organization-wide.
- Hardened LLM systems for production: eliminated a 45% CV screening failure rate, reduced fraud false positives from 90.9% to 36.4%, and added 270+ automated tests with CI-gated evaluation for fairness and prompt injection.
- Diagnosed a 21s production stall as Microsoft Fabric capacity throttling and restored ~1s load times with pre-aggregated data marts. Delivered an enterprise vendor management platform as sole engineer in 6 weeks.
- Owned Azure operations: Bicep IaC, GitHub Actions, Managed Identity, Key Vault with key rotation, alerting as code, and same-day model migrations across production.

Tech: FastAPI, Next.js, TypeScript, Azure OpenAI, Azure AI Foundry, Microsoft Agent Framework, LangGraph, Azure AI Search, Cosmos DB, Document Intelligence, Microsoft Fabric, Container Apps, Service Bus, Key Vault, LiveKit, Bicep, GitHub Actions CI/CD.

Software Engineer at PT SMBC Indonesia Tbk (Jenius)

(June 2024 - Dec 2025)

The largest digital banking company in Indonesia

- Led development of priority user dashboards and insurance activation interfaces in React, automating reporting tasks and reducing manual workloads by 90%.
- Architected microservices integrating five insurance partners, automating policy workflows, reducing operational errors by 30%, and improving onboarding SLAs.
- Improved system throughput by thirty percent by adopting Kafka for event-driven flows and Redis for caching, lowering peak load latency.
- Built an internal MFT SFTP service with 99% uptime, replacing a commercial product and eliminating $50,000 yearly cost.
- Established testing standards and reached one 100% unit test coverage on new and legacy modules, reducing production issues by 30%. Implemented k6 performance testing for API and worker benchmarking.

Tech: NodeJS, Spring Boot, ExpressJS, Kafka, Redis, React, Bootstrap, PostgreSQL, SFTP, AWS

Full Stack Developer at PT Informasi Teknologi Indonesia

(Mar 2023 - June 2024)

Provider of messaging and AI-driven solutions in Indonesia, trusted by 500+ top corporations

- Developed multi tenant SaaS platforms for legal, asset, and task management used by 500+ users nationwide.
- Designed architecture and produced PRDs, TRDs, and ERDs for the Asset Management platform, enabling smooth team execution and production ready documents.
- Built Golang APIs integrated with a React and NextJS dashboard, improving automation efficiency by 30%.
- Developed a content-driven blog website using Astro, applying modern frontend architecture and responsive UI.
- Reduced SonarQube-reported technical debt by 60% by refactoring legacy modules.

Tech: Laravel, Golang, Echo, Vue, React, NextJS, Astro, Tailwind, MySQL, Redis, Docker, SonarQube

Backend Engineer at PT MNC Asia Holding Tbk

(Feb 2022 - Feb 2023)

Indonesia's Leading Investment Group, across Media, Finance, and Hospitality

- Engineered real time request handling using AWS API Gateway WebSocket and Redis, cutting latency by 15%
- Refactored payment gateway using GraphQL and AWS Lambda, improving transaction speed by 30% and scaling dynamically under high traffic.
- Optimised MySQL queries and backend logic with Gin and Laravel, improving execution speeds by 20% and reducing errors by 40%.
- Migrated homepage backend to GraphQL, improving query page load time by 25%.

Tech: AWS WebSocket, Redis, GraphQL, Lambda, MySQL, Golang, Gin, PHP, Laravel

PROJECT EXPERIENCE

Backend Engineer Freelance at TEMMPAT-ID (Nov 2025 - Dec 2025)

B2C Event Management Platform Ticketing Solutions

- Led a full backend refactor, transforming legacy systems into a scalable auction and marketplace engine using modular Express.js architecture.
- Set up CI/CD with GitHub Actions and Docker for consistent dev-to-prod environments.
- Designed a secure e-wallet and financial ledger system, handling balances, escrow flows, and automated disbursement.
- Implemented real-time buyer-seller negotiation chat over WebSocket for transaction aware buyer seller negotiation.
- Developed a multi-tenant RBAC system with strict data isolation across admin, client, and partner modules.

Tech: Node.js, Express.js, MySQL, Sequelize, WebSocket, 3rd Party Payment Gateway, REST API, Grafana

Backend Engineer Freelance at Jublia Pte Ltd. - Singapore (Sep 2023 - Dec 2023)

Empowering Events with Smart Business Matching & Data-Driven Networking Solutions.

- Improved search relevance by 40% using Elasticsearch combined with collaborative filtering.
- Reduced server response times by 25% through PostgreSQL optimisation.
- Created AI driven sentiment analysis service using LangChain and OpenAI with 96% accuracy for NPS, CSAT, and onsite satisfaction scoring.
- Automated daily sentiment reports using RabbitMQ, speeding analysis by 50%.
- Removed unused services and reduced system overhead by 20%.

Tech: Elasticsearch, PostgreSQL, Python, Flask, RabbitMQ, LangChain, OpenAI

EDUCATION

Telkom University - Bachelor Computer Science, GPA: 3.88 / 4.00 (2019 - 2023)

Thesis: Sentiboard Application (University Sentiment Dashboard Application Using IndoBERT Model)

Developed a sentiment analysis dashboard for university service evaluation using **Python, Django**, **Bootstrap,** and **IndoBERT transformers**. Designed an automated system to analyze student feedback from social media using the **Twitter API**. Implemented an **iterative incremental** methodology for optimized development. The system provides universities with data-driven insights to improve academic services**.**

SKILLS

- **AI/LLM:** Microsoft Agent Framework, LangGraph, LangChain, Azure OpenAI (incl. Realtime), RAG, Hybrid/Vector Search, Prompt Shields, LLM Evaluation, Hugging Face
- **Azure:** AI Foundry, AI Search, Cosmos DB, Document Intelligence, Container Apps, App Service, Functions, Service Bus, Key Vault, Managed Identity, Microsoft Fabric, Monitor
- **Languages:** Python, TypeScript, JavaScript, Go, Java, PHP
- **Backend:** FastAPI, Spring Boot, Express.js, Gin, Echo, Laravel, Flask, Django
- **Frontend:** Next.js, React, Vue, Nuxt, Tailwind
- **Data and messaging:** PostgreSQL, MySQL, MongoDB, Redis, Kafka, RabbitMQ, Elasticsearch
- **DevOps:** Docker, Bicep, GitHub Actions, Jenkins, AWS, LiveKit, k6, SonarQube, Sentry

CERTIFICATION

- TOEFL ITP - 547 (2024)
- Azure AI Apps and Agents Developer Associate AI-103 (2026)
- Github Developing in Agentic AI Systems GH-600 (2026)
- Azure Fundamentals AZ-900 (2026)
- Azure AI Engineer Fundamentals AI-901 (2026)
- Google Generative AI Leader (2026)

ORGANISATION EXPERIENCE

Proclub Telkom University - VP Internal & Software Engineer Lead (Jan 2020 – Dec 2021)

- Led and mentored a team of 200+ software engineering students, designing industry-relevant curriculums for the Software Engineer, Business Analyst, and Product Designer divisions
- Organized and facilitated 10+ workshops, competitions, and recruitment events, enhancing skill development and team engagement.

Motion Laboratory Telkom University - Hackathon Judges & Technical Staff (Jan 2022 - Feb 2022)

- Evaluating 21 teams on innovation, technical execution, and problem-solving skills.
- Provided technical mentorship and support, ensuring smooth event execution and fostering a competitive yet collaborative environment.