Kurniadi Ahmad Wijaya

Software Engineer - Jakarta, Indonesia

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Software Engineer with 4+ years of experience across backend and frontend development, specialising in scalable fintech and SaaS platforms. Strong in backend architecture, microservices, distributed systems, and event driven design, with solid fullstack capability using modern frontend frameworks. Experienced in building production ready AI and RAG systems using LangChain and Llama. Brings high ownership, fast delivery, and clear collaboration across product and engineering teams.

WORK EXPERIENCE

Software Engineer at PT SMBC Indonesia Tbk (Jenius) — (June 2024 - Now)
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 over 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%.
- Reduced technical debt by 60% using SonarQube and refactoring legacy modules for stability.

Tech: Laravel, Golang, Vue, React, NextJS, 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 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, Gin, Laravel

PROJECT EXPERIENCE

Backend Engineer at TEMMPAT-ID — (Nov 2025 - Des 2025)
Premium & Exclusive Event Management Platform with High-Tier Ticketing Solutions

- Led a full backend refactor, transforming legacy systems into a scalable auction and marketplace engine using modular Express.js architecture.
- Architected an end-to-end DevOps strategy, implementing GitHub Actions for automated testing and Docker containerization to ensure consistent environments from dev to prod.
- Designed a secure e wallet and financial ledger system, handling balances, escrow flows, and automated disbursement.
- Implemented secure P2P communication 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

Full Stack Engineer Freelance at DariOrdal — (Jul 2025 - Aug 2025)
Premium & Exclusive Event Management Platform with High-Tier Ticketing Solutions

- Built a high demand ticketing system using Next.js and Prisma, optimized for limited quota premium events.
- Implemented transactional booking logic to prevent overselling and ensure real time inventory locking.
- Integrated iPaymu payment gateway with secure checkout, webhook handling, and transaction auditing.
- Designed relational data models for complex ticket tiers, quotas, and member auditing.
- Automated QR based e ticket generation and verification, reducing operational overhead by 40%.

Tech: Next.js 14, TypeScript, Prisma ORM, PostgreSQL, Tailwind CSS, Shadcn UI

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, Flask, RabbitMQ, LangChain, OpenAI

Backend Engineer Freelance at Shumi   (Sep 2019 - Dec 2022)
One of the biggest action figures in e-commerce in Indonesia

- Built and sustained high-traffic REST APIs, reliably handling 2,000+ daily users and facilitating $10,000+ in monthly revenue through secure transaction processing.
- Integrated iPaymu Payment Gateway and RajaOngkir API, automating payment verification and shipping cost calculations, which reduced manual operational processing by 30%.
- Deployed and managed scalable infrastructure on DigitalOcean, utilizing Sentry for real-time error tracking and performance monitoring to ensure 99.9% uptime.
- Optimized database performance with PostgreSQL, ensuring fast query responses for complex product catalogs (Series, Manufacturer, Character).

Tech: Laravel, PostgreSQL, DigitalOcean, Sentry

EDUCATION

- **Sepuluh Nopember Institute Of Technology** - Master Management, Current GPA: 3.60 / 4.00   (2024 - Now)

  Thesis: Application Quality Improvement Recommendation System For Jenius Using RAG-LLM And ISO/IEC 25010:2011 Software Quality Model Framework

  Thesis: Built a RAG LLM recommendation system for Jenius using **LangChain and Llama**, storing embeddings in **ChromaDB** and structured data in **PostgreSQL**. Classified Google Play and App Store reviews into eight **ISO 25010 software quality metrics** to produce actionable app quality recommendations.

- **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

- **Programming Language**: Golang, Java, Python, Javascript, Typescript, PHP
- **Backend Stack:** SpringBoot, ExpressJS, Laravel, Flask, FastAPI, Django, Gin, Echo
- **Frontend Stack:** React, Vue, NextJS, NuxtJS, Bootstrap, Tailwind, Streamlit
- **Tools**: Docker, Git (Github, Gitlab, Bitbucket), Postgres, MySQL, MongoDB, Jenkins, S3, AWS, Sentry, Redis
- **Others:** Tensorflow, Huggingface, Plotly, Langchain

CERTIFICATION

- TOEFL ITP - 547 (2024)
- Digitalent Scrum Master Certification (2022)
- IBM Machine Learning Certification (2021)
- Microcredential Certification For Associate Data Scientist (2021)

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 - 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.