Wigtono

Software Engineer - Backend, Distributed Systems & AI/LLM

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Summary

Software engineer with nearly three years of production engineering experience across backend services, distributed systems and AI/LLM infrastructure. Builds retrieval infrastructure for production RAG systems: preprocessing, embeddings, hybrid retrieval, reranking, context selection, evaluation and cost control, primarily in Go, Rust, Python and TypeScript. Open to backend, distributed systems and AI/LLM roles, on-site in Indonesia or remote.

Experience

Technopartner Indonesia - *Software Engineer* Sep 2024 - Present

Client work in the Technopartner Indonesia engineering team

- **GANI.AI** - Built retrieval infrastructure for a production legal-AI platform: preprocessing, embeddings, candidate retrieval, reranking and context selection, optimized end to end for retrieval quality, index efficiency and operating cost.
- **Jiwa Group (Janji Jiwa)** - Engineered an offline-first selling flow for a rider app: durable local writes, idempotent replay and reconciliation on reconnect, in a multi-brand suite with Midtrans and OVO payments and a network publicly stated at **900+ outlets** and **1,500+ mobile carts**.
- **ZU Point** - Modeled voucher lifecycle and exactly-once redemption under concurrency for a loyalty CMS, alongside promo-code generation, multi-tenant scoping, role-based access, audit logging and reporting exports; platform publicly documented at **48+ merchants** and **20K+ outlets**.
- **Natasha Skin Care** - Developed shared backend services and a CMS for doctor, customer, recipient and scheduling workflows, keeping one domain model behind several product surfaces.

HashMicro - *Python Programmer* Mar 2024 - Aug 2024

- Developed Python business workflows on HashMicro ERP, a cloud platform connecting finance, sales, inventory, procurement and HR, implementing business logic against a shared domain model where each workflow's effects stay consistent across the modules that depend on them.

DomaiNesia - *Web Development Intern* Dec 2023 - Feb 2024

- Developed responsive WordPress sites with Elementor and HTML, CSS and JavaScript components.
- Worked with the web development team on usability and visual consistency.

Selected Projects

- **Pi-Herdr** (TypeScript) - Designed a durable multi-agent orchestration extension around a SQLite control plane, durable mailboxes and workflow DAGs; implemented restart recovery and structured completion so in-flight work resumes instead of being repeated. github.com/pwnholic/pi-herdr
- **Sadewa** (Go) - Engineered a multi-exchange library that unifies Binance and Bybit behind one interface, with WebSocket streaming and reconnection, per-venue rate limiting, circuit breaking and credential rotation without restarting the process. github.com/pwnholic/sadewa

Technical Skills

- **Languages:** Rust, Go, Python, TypeScript
- **Backend & Systems:** Distributed Systems, Microservices, API Design, Concurrency, WebSockets
- **AI / LLM:** RAG, Hybrid Retrieval, Reranking, Retrieval Evaluation, Agent Orchestration
- **Infrastructure:** Docker, Kubernetes

Education

Universitas Teknologi Yogyakarta - *Bachelor of Computer Science (S.Kom.)* 2018 - 2023