ARIS SETIAWAN BARA

Backend Developer | AI Enthusiast

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Based in Indonesia

PERSONAL PROFILE

Highly motivated Backend Developer with experience building scalable systems in both startup and enterprise environments. Passionate about emerging technologies, with strong proficiency in RESTful APIs, cloud-native backend architectures, Blockchain smart contracts, and cutting-edge AI tooling such as LangChain and LLMs. A strong advocate for clean code, design patterns, and scalable system design.

WORK EXPERIENCE

Instrumeta Teknologi Nusantara Ltd. [Full Time]

Backend Developer   *September 2024 - Present*

- Engineered and deployed scalable RESTful APIs for a high-traffic **Computer-Based Testing (CBT) platform** using Golang. Optimized system performance to handle many data requests, alongside advanced MySQL indexing.
- Architected and delivered a secure backend system for a **lending platform** in the finance industry using HonoJS (Bun) and TypeScript. This system enabled user loan applications, payments, and verification processes , enhancing security with WhatsApp-based OTP integration.
- Consistently applied Clean Architecture and reusable modules via Design Patterns across all projects to ensure long-term maintainability and scalability.

EDUCATIONAL BACKGROUND

UNIVERSITAS ISLAM KALIMANTAN MUHAMMAD ARSYAD AL BANJARI
Bachelor's Degree in Informatics Engineering – GPA 3.48
September 2019 – December 2023

PERSONAL & INDEPENDENT PROJECTS

Edunusa Project (EduTech)
Micro-lending backend system for business and financial operations.
• **Built with:** HonoJS (Bun), Golang, Postgresql
• Build Backend and Created REST APIs, integrated with Database through Prisma ORM.
• Applied Design Patterns and **Clean Code principles** for long-term maintainability.
• Build CBT (Computer Based Test) use Golang for Backend.

Customer Service AI with LangChain/Langgraph *(Personal Project)*
- Built an autonomous AI agent using **LangGraph** and the **ReAct** framework, capable of handling complex, multi-turn conversations instead of just answering single questions.
- Integrated **PostgreSQL** to provide the agent with persistent memory, enabling personalized interactions by remembering past user conversations.
- Utilized a **Chromadb** vector store for high-speed semantic search (RAG) to ensure responses are accurate and context-aware.
- Served the entire system as a scalable API using **FastAPI**.

Decentralized Voting System on Sui Protocol *(Personal Project)*
- Developed a full-stack decentralized voting application (dApp) on the Sui blockchain, writing the on-chain logic and smart contracts in **Sui Move**.
- Implemented core functionalities including proposal creation, secure on-chain voting mechanics, and transparent, real-time result tallying.
- Demonstrated proficiency in a non-EVM blockchain ecosystem, showcasing the ability to quickly learn and apply new Web3 protocols and asset-oriented programming models.

SKILLS

Languages: Golang, Python, TypeScript, JavaScript
Frameworks & Tools: ExpressJS, HonoJS, LangChain, FastAPI, Bun
Database: MySQL, PostgreSQL, SQLite
Other Skills: REST API, WebSocket, Clean Architecture, Design Patterns
Domain Knowledge: Backend Development, AI/LLMs Integration