

# ARIS SETIAWAN BARA

Backend Developer | AI Enthusiast

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Based in Indonesia

## PERSONAL PROFILE

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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

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### 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

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### UNIVERSITAS ISLAM KALIMANTAN MUHAMMAD ARSYAD AL BANJARI

Bachelor's Degree in Informatics Engineering – GPA 3.48

September 2019 – December 2023

## PERSONAL & INDEPENDENT PROJECTS

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### 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**

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**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