

HUGO IRFENZ SYAROF

Full-Stack Software Engineer · AI Builder · Human–AI Experience

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PROFILE

AI Automation Engineer and User-Focused Solutions Builder with experience in full-stack development, Go REST APIs, enterprise workflow automation, reporting systems, and practical LLM/RAG implementation. Track record of designing systems, optimizing large datasets, and facilitating AI adoption as a U.S. Embassy AI Ambassador.

CURRENT & PROFESSIONAL EXPERIENCE

Associate Software Engineer NOW / 2026
PT Hyperscal Digital Indonesia Jakarta, Indonesia

- Driving full-stack software engineering initiatives, building modern web interfaces and scalable backend services.
- Integrating AI-assisted capabilities and streamlining complex digital workflows across production systems.

Remote Golang Full-Stack Developer 12/2025 – 2026
PT Unirama Duta Niaga Jakarta, Indonesia

- Built and maintained REST APIs using Golang/Gin, migrating key workflows from Frappe to Go and reducing query runtime from 10 minutes to 10 seconds for 4K+ record requests.
- Implemented transaction-safe backend logic with GORM across PostgreSQL, MySQL, and MariaDB.
- Aligned API contracts and resolved payload issues, reducing frontend-backend integration time by 40%.

Digitalization and Automation Engineer 04/2025 – 2026
PetroChina International Jabung Ltd. Jakarta, Indonesia

- Engineered QR-based digital mailroom system with real-time tracking, reducing document routing time by 70%.
- Automated document workflows using Python, cutting manual data entry time by 60% with higher reporting accuracy.
- Integrated RFID (ACR122U) access readers into visitor-tracking prototype for 3 divisions.

IT System Architect Intern 08/2024 – 12/2024
World Wildlife Fund For Nature (WWF Indonesia) Jakarta, Indonesia

- Optimized core server infrastructure, increasing uptime reliability by 25%.
- Consolidated five departmental asset databases into a single digital inventory hub.

EDUCATION

Gunadarma University — S.Kom in Information Technology 2020 – 2024
GPA 3.85 (Magna Cum Laude) Jakarta, Indonesia

- Thesis: IoT-based Smart Cat Feeder & Water System with AI Monitoring.
- Publication: SINTA-indexed article on IBM Watson Chatbot Implementation.

SKILLS & TECHNOLOGIES

Languages & Backend: Golang, Python, TypeScript, JavaScript, Gin, REST APIs, GORM, SQL (PostgreSQL, MySQL, MariaDB, ClickHouse).

Frontend & HCI: Next.js, React, Tailwind CSS, Canvas/WebGL, UI Architecture, Interaction Design.

AI & Automation: RAG Concepts, Prompt Engineering, Local LLMs (Ollama), n8n, Python Automation, QR/RFID Systems.