

MUH. IKHSAN FAHMI

UNDERGRADUATE STUDENT

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SUMMARY

A 6th-semester Information Technology student at Telkom University with a strong passion for modern Full-stack Web Development and Artificial Intelligence (AI) integration. Proficient in building scalable applications using AI. Experienced in developing IoT prototypes for environmental monitoring and actively exploring AI-driven solutions. Highly motivated to learn, adapt to new technologies, and contribute to innovative digital projects.

EDUCATION

Telkom University – Bandung, Indonesia

Bachelor Degree of Information Technology Sep 2023 – Present

- **Relevant Courses:** Web Development, Artificial Intelligence, Database Management System, Internet of Things (IoT), Cloud Computing, and Project Management.

PROFESSIONAL EXPERIENCE

PT Parakarsa Kokreasi Semesta | *Full-stack Developer Intern (WFA)*

Jul 2026 – Present

- Developing OKESTA Engine, an internal ERP platform, building backend REST APIs with NestJS and Prisma and frontend interfaces with React and Vite.
- Working in a Turborepo/pnpm monorepo, contributing to PRD and SRS documentation aligned with ISO/IEC/IEEE 29148:2018 standards.
- Collaborating remotely (Work From Anywhere) with a cross-functional team, including the product owner and tech lead, on system architecture decisions.

TECHNICAL PROJECTS

RentStuff – Hobby Equipment Marketplace | *Full-stack Developer*

Mar 2026 – Present

- Developing a application with Flutter.
- Designing relational database schemas with Firebase.
- Collaborating with a team via **Figma** to create a seamless and user-centric UI/UX design.

HR Policy Agent – Multi-Company HR Policy RAG Agent | *AI Engineer*

Jul 2026

- Built a retrieval-augmented generation (RAG) AI agent in Node.js and TypeScript that answers multi-company HR policy questions through a chat interface.
- Implemented semantic search using Voyage AI embeddings with cosine similarity and score-threshold guardrails to prevent the agent from fabricating answers.
- Integrated LLM tool-calling with employee auto-identification and multi-tenant company scoping, using SQLite for persistent conversation memory.

JustGame – Real-time Multiplayer Party Game Hub | *Full-stack Developer*

Jul 2026 – Present

- Built a real-time multiplayer party-game web hub with Next.js and Supabase, featuring room creation/join, live game state sync, and Trivia and Undercover game modes.
- Implemented authentication and realtime data with Supabase (Auth + Realtime), plus in-game sound effects using Howler.js.
- Designed a gamification system with player leveling and score tracking across game rounds.

MovINFO – Interactive News & Media Platform | *Web Developer*

Nov 2025 – Dec 2025

- Built an interactive news platform featuring dynamic content delivery and real-time database management.
- Implemented a responsive user interface using Java and CSS for optimal performance.

TaskFlow – To-Do-List Web | *Web Developer*

2025 - Present

- Built an interactive to-do-list and workspace based on web.
- *Implemented a responsive user interface using **Next.js** and **TailwindCSS** for optimal performance.*

SKILLS

- **Database & Tools:** Figma, Canva, CapCut, AntiGravity IDE, OpenClaw.
- **Hardware & AI:** ESP32, Prompt Engineering, LLM API Integration.

CERTIFICATION & ACTIVITIES

- Successfully completed NetDevelopment 2025 – Adaptive Network Lab.
- **Junior Staff of Interest & Talent Department**, Information Technology Student Association (HMIT). (2024)
- **Staff of Communication & Information Department**, Information Technology Student Association (HMIT). (2025)