

# IZHAN ZIKRY HAMDANI | FULL STACK DEVELOPER

📞 +60 11-7272 0916 📩 izhanhamdani11@gmail.com

LinkedIn

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Portfolio

## TECHNICAL SKILLS

**Languages:** (Proficient) JavaScript, TypeScript, Solidity, Python, PHP | (Familiar) Rust, Java, C++, Golang

**Frontend Development:** React.js, React Native, Flutter, Next.js, Tailwind CSS

**Backend Development:** Express.js, FastAPI, Laravel, Prisma ORM, MySQL, PostgreSQL, MongoDB.

**Machine Learning & IoT:** Flowise AI, YOLO, ESP32, Raspberry Pi, Arduino.

**Web3 & Blockchain:** Hardhat, Anchor, smart contract, ERC-20, NFT, RWA.

**Tools & Infrastructure:** AWS (Certified), Docker, Nginx, Digital Ocean, Git/GitHub, Linux (Ubuntu, Kali), Figma.

## EDUCATION

Bachelor Of Computer Science (Hons.) Netcentric Computing

2022 – 2026

UiTM Jasin, Melaka

CGPA – 3.66

## CERTIFICATIONS

- AWS Certified Solutions Architect – Associate
- CCNA: Introduction to Networks

## EXPERIENCE

**Intern** | Laravel, Python, Figma, Draw.io, MySQL

2025

- **Architected and developed** a full-stack web application using **Laravel** and **MySQL**, implementing secure authentication and modular backend logic to ensure data integrity.
- **Streamlined** development workflows by designing high-fidelity UI/UX wireframes in **Figma** and mapping complex database architectures using **Draw.io** ERDs.
- **Automated** data collection and internal reporting processes using **Python** web scraping scripts, reducing manual workload by **50%** and improving data accuracy.
- **Spearheaded** Quality Assurance through UAT and SIT protocols, documenting over 20 test cases to identify bugs and ensure high-stability deployments.

## POSITION OF RESPONSIBILITY

**President** UiTM Blockchain Association

2025

- **Spearheaded** strategic partnerships with corporate firms and academic institutions, successfully securing vital sponsorships and expanding the association's reach.
- **Mentored** and supervised technical committees to secure **high-ranking finishes** in national blockchain hackathons by providing strategic project oversight and technical development guidance

## PROJECTS

**BlockCash** | React Native, React Native NFC, Solidity, Remix IDE, WalletConnect

2024

- **Top 5 Finalist**, Manta Network Winner, Scroll Consolation Prize, Pool Prize Winner at EthKL.
- **Secured over USD 10,000 in total prize winnings.**
- Architected a mobile-to-blockchain payment ecosystem using React Native and NFC, facilitating physical allowance transactions backed by on-chain assets.
- Optimized the Web3 user experience by integrating WalletConnect and implementing an anonymous ETH claim flow to abstract complex smart contract interactions.

**Blocknogotchi** | Next.js, React, TypeScript, RWA, NFT, Blockchain

2025

- **2nd Place** in Scroll Open RWA Track, **secured USD 5,000 in prize money.**
- **1st place** in Scroll, The Graph, and Open Track at **ETH Uprising Hackathon**

- **Developed** a Web3 gaming platform that synchronizes physical NFC cards with NFT-backed digital assets using **Next.js** and **TypeScript**.
- **Designed** a Real-World Asset (RWA) interaction model to bridge physical collectibles with on-chain battle progression and ownership verification.

### Medicix | ESP32, MFRC522 RFID, Solidity, Eth Sepolia

2024

- Won Scroll Track, Blockchain for Good Track, and Devcon Track at **Devmatch Hackathon**
- Awarded **5 Devcon Bangkok tickets**, **each ticket is worth USD 599**
- **Engineered** an IoT-to-Blockchain verification system using **ESP32** and **RFID** to validate medical product authenticity against immutable records.
- **Integrated** hardware event triggers with **Solidity** smart contracts on **Ethereum Sepolia** to automate counterfeit detection and user rewards.

### ZakatChain | Next.js, React, TypeScript, Token, Stable Coin, NFC

2024

- Awarded **1st Place** in the FinTech & Technology domain at **UM Hackathon 2025**, securing **MYR 7,500**.
- **Architected** a transparent zakat tracking ecosystem using **Next.js** and **TypeScript**, providing donors with a real-time monitoring dashboard.
- **Engineered** an **ERC-20 stable-coin** model to track fund flows across disbursement cycles without disrupting existing fiat payment infrastructures.
- **Implemented** a distribution model inspired by MyKasih, enabling recipients to utilize **NFC-enabled cards** for direct token transfers at registered merchants.

### GlassFund | Raspberry Pi, Pi Camera Module, Machine learning, YOLO, FastAPI

2025

- Recognized as a **Top 10 Finalist** in the FinTech & Blockchain Track at the Varsity Hackathon.
- **Developed** a donation integrity platform where transit goods are minted as **NFTs** and tracked via a **Raspberry Pi + Pi Camera** hardware stack.
- **Integrated** machine learning models using **YOLO** to automatically detect and verify items at transit stops, ensuring accurate status updates on-chain.
- **Synchronized** QR code scanning with on-chain records to provide donors with real-time, global location tracking of their contributions.

### TeleSpectrom | Vite.js, Express.js, React, LLM, AI

2024

- **2nd Runner-Up** at GodamLah Hackathon, awarded **MYR 1,000**
- **Built** a real-time scam detection engine using **Vite.js** and **Express.js** to safeguard users against sophisticated phishing and fraudulent messaging.
- **Leveraged** advanced **LLM-based AI models** to classify incoming messages with high specificity, effectively identifying threats in real time.
- **Optimized** detection algorithms to significantly **minimize false positives**, ensuring a seamless and non-disruptive security experience for the end-user.

### Telespector | Flowise AI, Multi-Agent LLMs, Docker, Nginx, Digital Ocean

2025

- Awarded a **Grade A (Excellent)** for Final Year Project.
- **Engineered** a production-grade Telegram scam-detection engine utilizing a **Flowise AI multi-agent pipeline** (OpenAI, Anthropic, and Groq) with a specialized two-stage classification and verification workflow.
- Attained **90%+ detection consistency** and reduced false positives by **20%** by architecting sophisticated logic to distinguish phishing attempts from legitimate interactions.
- **Containerized** the entire architecture using **Docker** and orchestrated the deployment on **DigitalOcean** with an **Nginx** reverse proxy, reducing deployment time by **50%** and ensuring secure, stable routing via **SSL/HTTPS**

### SmartGym | ESP32, Supabase, RFID (MFRC522), DHT11, L298N Motor Driver

2024

- Achieved a **Grade A (Excellent)** for the architectural design and implementation of an automated gym management system, recognized for its complex integration of cloud and hardware.
- **Integrated** **ESP32** with **RFID** and **Supabase** to track real-time attendance and manage member access via a cloud-based dashboard.
- **Built** remote environmental controls using **DHT11 sensors** and **L298N drivers** to simulate automated cooling systems via **DC motor** activation.