

Contact

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(LinkedIn)
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Top Skills

Scratch
HTML
Ethereum

Certifications

IBM AI Developer Specialization
BUIDL Your Web3 Ideas with Lisk
Solidity Mastery: Foundations to
Advanced Smart Contracts
Machine Learning

Honors-Awards

Indonesia Hacker House Hackathon
Winner
3rd Place at Linea Feb/March Dev
Cook-Off!

Publications

A pothole video dataset for semantic
segmentation

Muhammad Ihsan

AI-Web3 Builder | 2 YoE
South Kalimantan, Indonesia

Summary

I build products at the intersection of AI and Web3, turning ideas into real-world applications across smart contracts, dApps, and end-to-end AI systems. I focus on fast, impact-driven execution, demonstrated through shipped projects and hackathon wins, while working across the full stack from machine learning and backend APIs to blockchain and wallet integrations. I primarily work with Python, Solidity, and TypeScript, using React/Next.js alongside AI libraries such as PyTorch, TensorFlow, and Transformers, plus Web3 tools like Hardhat and Foundry, with the goal of designing systems that are simple on the surface, strong underneath, combining AI for insight and blockchain for trust.

Experience

Nityo Infotech Indonesia
Artificial Intelligence Engineer
April 2026 - Present (6 months)
Indonesia

Building End To End ML Services

Politeknik Murakata
Lecturer
April 2026 - August 2026 (5 months)
Barabai

GathLabs
Web Developer
November 2024 - July 2025 (9 months)
Indonesia

- Built a deterministic wallet dApp on an EVM-compatible chain using Solidity and Next.js, focusing on secure, predictable wallet generation and a smoother onboarding flow for new users.

- Designed and implemented smart contracts to manage wallet creation and on-chain interactions, integrating them with a modern frontend for seamless Web3 user journeys.
- Developed an AI model for cryptocurrency token price prediction, experimenting with different ML algorithms and feature sets to capture short-term market signals.
- Integrated the Gemini API into an AI-powered brand identity generator, automating the creation of taglines and visual concepts to speed up early-stage product branding.
- Designed and shipped a landing page for a blockchain product, translating technical features into clear value propositions and CTAs aimed at Web3-native and non-crypto users.
- Contributed to internal research and documentation on blockchain application design, helping articulate system architecture and use cases for future publications or whitepapers.

Freelance

AI Researcher

January 2024 - November 2024 (11 months)

- Helped a research team improve microseismic monitoring by analyzing complex seismic datasets, designing ML pipelines, and drafting sections of a research paper to better capture patterns and trends in microseismic events.
- Acted as an AI researcher focusing on uncertainty-aware microseismic event prediction, experimenting with classical ML and deep learning models to support decision-making in resource management and natural hazard mitigation.
- Supported as Research Assistant at Universitas Gadjah Mada by preparing pothole image datasets, implementing semantic segmentation with deep learning, and contributing to a research manuscript.
- Delivered small-scale business websites for clients using modern web frameworks, translating non-technical requirements into responsive, production-ready web apps.
- Mentored a data analyst in Python and ML fundamentals through 1:1 sessions, covering data preprocessing, model building, and experimentation best practices to improve their real-world analytics workflow.

Indonesia AI (PT. Teknologi Artifisial Indonesia)

Computer Vision Bootcamp Participant

May 2023 - November 2023 (7 months)

- Built a strong foundation in machine learning and deep learning, learning to design, train, and evaluate models for real-world computer vision tasks.
- Applied transfer learning techniques to a gender classification problem, fine-tuning pretrained CNN models to improve accuracy with limited labeled data.
- Implemented object detection pipelines using Faster R-CNN and YOLO, experimenting with different architectures to detect multiple objects in images.
- Explored semantic segmentation with Fully Convolutional Networks (FCN) and U-Net, training models to produce pixel-level predictions for structured scenes.
- Developed end-to-end CV workflows, from dataset preparation and augmentation to model training, evaluation, and result interpretation for practical use cases.
- Recognized as the Best Student in the computer vision specialist track for consistently achieving top performance in assignments, projects, and model implementation quality.

Institut PTIQ Jakarta

Tata Usaha Fakultas Ushuluddin

August 2018 - November 2019 (1 year 4 months)

Jakarta Selatan, Jakarta, Indonesia

- Managed student administration for the Faculty of Ushuluddin, handling registrations, records, and documentation to ensure smooth academic operations across multiple cohorts.
- Facilitated communication between professors and students by coordinating announcements, schedules, and follow-ups, reducing miscommunication in course-related matters.
- Supported the head of administration in basic financial management, helping track faculty expenses and administrative budgets to maintain organized and transparent records.
- Created an online registration page for part-time classes using Google Sites before each academic year, streamlining sign-ups and reducing manual data entry.
- Collected and organized registration data from Google Sites into structured reports, enabling faster review and decision-making for class planning.
- Provided day-to-day administrative assistance to academic staff, ensuring documents, letters, and internal requests were processed on time.
- Coordinated with different units within the faculty to align administrative workflows, helping maintain consistent procedures for students and lecturers.
- Designed a logo for the faculty's publishing house, contributing to a more recognizable and professional visual identity for official publications.

Education

Universitas Gadjah Mada (UGM)

M.Cs, Magister Ilmu Komputer · (August 2021 - April 2024)

STMIK Nusa Mandiri Jakarta

S.Kom, Information Technology · (2019 - 2021)

Universitas Bina Sarana Informatika

A.Md.T, Teknik Komputer · (2016 - 2019)

Universitas PTIQ

S.Ag, Ilmu Al-Quran dan Tafsir · (2015 - 2019)

Pelita Bangsa Academy

Certificate, Blockchain Developer · (September 2025 - December 2025)