

ADZ DZIKRI TAMYIZUR RIJAL

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SUMMARY

Informatics Engineering graduate and versatile developer working across full-stack web, backend systems, and applied AI/Machine Learning. Experienced in building and deploying end-to-end products - from a multi-tenant AI SaaS and a concurrency-safe booking API to deep learning models for computer vision. Backed by solid computer-science fundamentals, leadership as a student-association chairman, and a passion for turning ideas and research into real, working technology.

EDUCATION

University of Trunodjoyo Madura <i>Bachelor of Computer Science.</i>	Bangkalan, Indonesia 2022 – 2026
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WORK EXPERIENCE

LPPM University of Trunodjoyo Madura <i>Research Team Member</i>	Bangkalan, Indonesia Jul 2025 – Dec 2025
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- Contributed to an LPPM Universitas Trunojoyo Madura-funded Computer Vision and Deep Learning research project, including dataset processing, image preprocessing and augmentation, model development, and model training.

ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Teknik Informatika (HIMATIF) <i>Chairman</i>	Bangkalan, Indonesia Aug 2025 – Dec 2025
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- Led and managed the Informatics Engineering Student Association with 500+ active members, overseeing organizational governance, budgeting, and member development.
- Directed annual academic and social programs workshops, seminars, and inter-department competitions increasing student engagement across the Faculty of Engineering.

PROJECTS

Cattle Classification System (Undergraduate Thesis) <i>Python, PyTorch, Vision Transformer (ViT), HuggingFace, FastAPI, Streamlit, Docker.</i> <i>Link: adri178-classification-cow.hf.space</i>	<i>Des 2025 – Jun 2026</i>
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- Built an AI classification system for cattle breeds using ViT-Base/16 with a custom Gated Attention Block, achieving 94.02% acc while proving 2.4× greater robustness to a 25% data reduction as an effective adaptive regularize.

Helpbot (Full-Stack AI SaaS) <i>Next.js 15, TypeScript, Supabase (PostgreSQL + pgvector), Google Gemini API, RAG, Vercel.</i> <i>Link: helpbot-xi.vercel.app</i>	<i>Jan 2026 – Aug 2026</i>
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- Built a multi-tenant AI SaaS where businesses upload documents to generate an embeddable RAG chatbot widget, using pgvector semantic search with Google Gemini for embeddings and generation.

MauApa (Backend Booking & Queue API)*Jun 2026 – Aug 2026**NestJS, TypeScript, PostgreSQL, Prisma, Redis, Socket.IO, JWT /RBAC, Docker, CI/CD.**Link: mauapa-api.onrender.com*

- Engineered a backend API for UMKM service booking with real-time queue updates over Socket.IO and concurrency-safe double-booking prevention via PostgreSQL row locking, verified by integration tests proving exactly one concurrent booking succeeds.

NusaFab (Full-Stack Company Profile)*Jul 2026 – Present**Next.js, TypeScript, Tailwind CSS, i18n (EN/ID), Custom CMS.**Link: com-profile-eight.vercel.app*

- Developed a B2B manufacturing company-profile site with an industrial UI, EN/ID internationalization, SEO and performance optimization, and a custom admin CMS featuring an RFQ pipeline with CAD file uploads.

SKILLS & INTERESTS

Frontend: React.js, Next.js, Flutter, HTML5, CSS3, JavaScript, Tailwind, UI/UX Design (Figma).**Backend & Data:** Laravel, NestJS, Node.js, PostgreSQL, Prisma, Redis, Socket.IO, REST API (JWT/RBAC), Dart.**Infrastructure & Tools:** Firebase (Cloud Firestore), Supabase, Docker, CI/CD (Github Actions), HAProxy, Linux Server (Fedora, Debian, CachyOS), Git/GitHub, Vercel, Railway.**Certifications & Training:** Generative AI Dicoding, Programming Python Dicoding.**PUBLICATIONS**

Rijal, A. D. T., et al. (2026). Cattle Breed Classification Using ResNet-50 Hyperparameters Based on Transfer Learning. JUSIFOR – Jurnal Sistem Informasi dan Informatika, UNIRA Malang.