

NICO PRANAMA HADI

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PERSONAL PROFILE

Motivated Computer Science student from Binus University with a strong interest in backend development and Artificial Intelligence. Aspires to build scalable and efficient web application systems that solve real-world problems. Has practical experience with Python for machine learning development, React Native for frontend development, and foundational knowledge in backend development using Golang and database systems.

EDUCATION

BINUS UNIVERSITY - Computer Science

2023-Present

GPA: 3.79

PROJECT EXPERIENCE

MEMORISE - AI-Powered Flashcard Learning Application

Full-Stack Developer

- Designed and implemented a scalable MongoDB database schema to support modular microservices.
- Built core backend microservices using Node.js and Express, with reliable inter-service communication via RabbitMQ and Redis.
- Integrated AI-driven features for automatic flashcard generation and personalized learning recommendations.
- Contributed to the Kotlin-based frontend, integrating APIs and enhancing the overall learning experience.
- Containerized and orchestrated the entire system with Docker, ensuring scalability and efficient local development.
- **Tech Stack:** Node.js, Express, MongoDB, Kotlin, Docker, RabbitMQ, Redis, Python.

LUMINA - AI-Powered Skincare Recommendation Application

Front-end Developer & UI/UX Designer

- Designed a user-friendly user interface in Figma with attention to user experience flow across 10+ screens.
- Developed a responsive mobile frontend using React Native, optimized for various screen sizes.
- Integrated frontend with backend services to upload images and retrieve AI-generated skincare recommendations using external API.
- Implemented 5+ core features including user authentication, image upload with preview, AI-powered skin analysis, personalized skincare recommendations, and history tracking.
- Tested by 50+ users during evaluation, receiving overall positive feedback and insights for further enhancement.
- **Tech Stack:** React Native, Expo, Figma.

DESA WISATA BUMIAJI WEBSITE – PIONEER Tourism Village Web Platform

Full-Stack Developer

- Developed the Articles and Village Profile modules (public pages + admin dashboard) with React, Laravel, and Inertia.js.
- Built responsive frontend interfaces and a scalable backend architecture, ensuring both accessibility and future feature expansion.
- Implemented CRUD features that empowered admins to independently manage content, establishing the village's first official digital presence for tourism and UMKM promotion.
- Collaborated in a 7-member Agile team, using Jira & GitHub for coordination and successfully delivering the platform within 1 month.
- **Tech Stack:** React, Laravel (PHP), Inertia.js, Jira, MySQL, Figma.

ZENDORA – AI-Powered Email Automation Application for Customer Support

Full-Stack Developer

- Built Zendora, an AI-driven email automation application that streamlines customer support communication through intelligent email handling.
- Designed and implemented a network of AI agents using LangGraph and LangChain to analyze, classify, and draft personalized email responses.

- Integrated Google Gemini and Groq to enhance response accuracy and optimize inference performance.
- Utilized Chroma with SQLite as a vector database for context retrieval and long-term conversation memory in RAG-based workflows.
- Deployed modular AI pipelines via LangServe and FastAPI, enabling scalable and maintainable API endpoints connected with Gmail API for real-time automation.
- **Tech Stack:** Python, FastAPI, LangChain, LangGraph, LangServe, ChromaDB, Google Gemini, Groq, Gmail API.

LEGAL CHATBOT FOR UMKM – AI-Powered Legal Assistant

Full-Stack Developer

- Built an AI-powered legal chatbot using LangChain, ChromaDB, and OpenAI embeddings, tailored to help Indonesian SMEs (UMKM) easily access legal information.
- Developed a Streamlit based interactive chat interface with session memory, enabling natural and context-aware conversations.
- Implemented a pipeline to process and embed legal documents (PDF), making them searchable and expandable for wider coverage.
- Integrated a LangChain Agent to handle vague queries by reformulating them, ensuring accurate and context-backed answers.
- **Tech Stack:** Python, LangChain, ChromaDB, OpenAI API, Streamlit, PyMuPDF.

SKILLS

- **Technical Skills:** Laravel, React Native, Node.js, Express, PHP, Golang, Python, Kotlin, TypeScript, Redis, RabbitMQ, Langchain, Langgraph, Langserve, Docker, ChromaDB, MongoDB, MySQL, Figma, Expo, Jira, Git.
- **Personal Skills:** Able to work independently and in a team, Detail-oriented and self-motivated, Effective time management, Responsible and reliable under pressure.
- **Languages:** Indonesian (Native) and English (Intermediate to Advanced)