ADE ROHMAT MAULANA

AI ENGINEER & FULLSTACK ENGINEER

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Portfolio : myportfolio.lavixtara.xyz

ABOUT ME

A recent master's graduate in Computer Science with in-depth expertise in backend development and artificial intelligence. Experienced in system design. Focused on solving complex technical problems and ready to make a tangible contribution to software development and AI research.

SKILLS

- PHP
- HTML
- CSS
- Javascript
- Python
- Rest API
- Framework Codeigniter
- Framework Bootstrap
- Framework Laravel
- Framework Flask
- Framework FastApi
- Framework Tailwind
- VueJs
- Machine Learning
- Computer Vision
- Visual Language Model
- Large Language Model
- RAG

EDUCATION

Master of Informatics **Feb 2024 - Aug 2026**

Telkom University

- Major in Master of Informatics.
- Thesis on "Semantic and Visual Contextual Integration for Enhanced Visual Question Answering"

Bachelor of Informatics **Sep 2017 - Oct 2021**

Universitas Teknologi Yogyakarta

- Major in Informatics.
- Final Project on "Identifying Fish Freshness Using Color Moment Feature Extraction and the kNN Method"

WORK EXPERIENCE

Freelance - Fullstack Engineer **2022 - Present**

- Programming and designing a wood species identification application using kNN.
- Programming and designing SPP payment applications and books.
- Programming and designing high school academic information system.
- Programming and designing plantation commodity monitoring system.
- Programming and designing health center patient registration information system
- Programming and designing web-based equipment rental
- Programming and designing Job Classification Based on SKKNI Using TF-IDF Feature Extraction and the Naive Bayes Method
- Programming and designing system for identifying eggplant diseasesusing ResNet50
- Programming and designing point-of-sale system for an insect store

PT East Blue Tech - Fullstack Engineer **2026**

- Founded PT East Blue Tech and led the development of customized software solutions for external clients.
- Delivered 2 client projects, including a Dakwah Information System for Muhammadiyah and an Academic Information System.
- Managed the complete software development lifecycle, from requirements gathering and system design to development, deployment, and maintenance.
- Communicated directly with clients to translate business requirements into functional and technical solutions.

WORK EXPERIENCE

Adhikari Inovasi Indonesia - Backend Engineer **2025**

- Programming and designing a fotoin-aja applaication web-base
- Programming photobooth application
- Programming invitation application
- Maintetnance POS application

LPP Agro Nusantara Indonesia - Full Stack Engineer **2024 - 2025**

- Designing and developing a geographic information system for plantation mapping
- Building web-based asset management applications
- Building a web-based Social Return on Investment (SROI) analysis application

Human Centric Engineering - Web Developer **2024**

- Designed and developed a responsive web landing page based on organizational requirements and design specifications.
- Implemented frontend components and interactive elements to create an intuitive and user-friendly interface
- Optimized the website for responsive display across desktop and mobile devices.
- Collaborated with the team to refine the website's content, layout, and functionality.

PT Minera Ebara Technologi - **Backend Engineer** **2024**

- Programming and designing a Super Apps Masa

Akademi Komunitas Negeri Seni dan Budaya Yogyakarta - Staff IT **2022 - 2023**

- Developed and maintained internal web applications to support organizational operations
- Administered government education platforms, including PDDIKTI, SIDAKIN, Tracer Study, and PPKS
- Managed application data, reporting, and system updates across institutional platforms
- Monitored LAN/Wi-Fi networks and IT infrastructure
- Provided technical support and troubleshooting for computers, software, printers, and other IT equipment
- Assisted employees with application usage, system configuration, and technical issues

Patfo - Backend Engineer **2021 - 2022**

- Developed and implemented backend functionality for the UTBK Tryout application
- Maintained and optimized the application to ensure stability, reliability, and smooth operation
- Identified, analyzed, and resolved application bugs and technical issues
- Collaborated with the team to troubleshoot issues and improve the application's overall performance

Practical Work at Pusdiklat & Sertifikasi UTY - Web Developer **2021**

- Designed and developed a web-based EPT (English Proficiency Test) registration application
- Developed application features to support the exam registration and administrative process
- Designed the application's structure and user interface to provide a simple and efficient registration experience

ORGANIZATIONAL EXPERIENCE

FKKMI region V - 2020-2021

- Conducted research and analysis to identify challenges and issues faced by student cooperatives within the region.
- Gathered and analyzed information from member cooperatives to support the development of potential solutions and recommendations.

Staff Manager — Member Resource Management Division, Kopma UTY - 2020-2021

Achievements:

- Succeeding the Event as a Steering Committee The Kopma Fair Event contains 4 2021 sub events.
- Finalist of the National Essay Competition at Politeknik Negeri Semarang 2020.
- Finalist of the National Essay Competition at Universitas Muhammadiyah Makasar

ORGANIZATIONAL EXPERIENCE

Education Coordinator — Kopma UTY - 2019-2020

- 2nd Place in the 2019 Cooperative Intelligence Competition (Dinas Koperasi dan UMKM
- National Cooperative Concourse Finalist 2019 (Universitas Negeri Yogyakarta)

CERTIFICATION AND TRAINING

Codepolitan — 2023-2026

- The Fundamentals and Applications of Generative AI
- Basic Cybersecurity
- Learning the Basics of CSS
- Learning the Basics of HTML
- Learning the Bootstrap CSS Framework

Alibaba Cloud — 2023

- Alibaba Cloud Certification

Dicoding Indonesia — 2021

- Learn Python Programming Fundamentals
- Learn Data Visualization
- Machine Learning for Beginners

BPPTIK — 2021

- Junior Web Developer Certification

PAPER PUBLICATION

- **Indo-CXR-VQA: A Glossary-Constrained Machine-Translated Indonesian Benchmark for Visual Question Answering on Chest Radiographs -** The 6th International Conference on Biomedical Engineering 2026 - Accepted
- **Limvo: a Less Is More Approach for Visual Reasoning in Knowledge Based Visual Question Answering** - The 28th International Conference of Oriental COCOSDA 2025 - Published