MUHAMMAD ASADILLAH RAMADHAN

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Enthusiastic and driven Informatics Engineering student at State Polytechnic of Malang, with a passion for transforming theoretical knowledge into impactful software solutions. Proven skills in web and mobile application development, backed by hands-on experience and a hunger for innovation. Actively seeking dynamic opportunities to apply expertise in a stimulating and forward-thinking environment, where I can contribute meaningfully while further refining my skills.

EDUCATION

State Polytechnic of Malang (2021 - 2025)

Informatics Engineering
Current GPA: 3.78/4.00
Subjects:

Algorithm and Data Structures
- Studied fundamental algorithms and data structures using Java.
- Emphasized efficiency, complexity analysis, and problem-solving.

Advance Web Programming
- Delved into advanced web development concepts using Laravel.
- Focused on MVC architecture, Eloquent ORM, and RESTful API development.

Machine Learning
- Explored the field of machine learning using Python.
- Utilized libraries such as scikit-learn, TensorFlow, and TesseractOCR.
- Applied machine learning algorithms to real-world datasets.

Mobile Programming
- Acquired skills in mobile app development using Flutter.
- Developed cross-platform mobile applications with a focus on user interface and user experience.

PROJECTS & EXPERIENCES

April 2024 - Present

Dynamic Magnetic Field Research (Brawijaya University Research Team)
Jobs & Responsibilities:
- Spearheaded the development of a cutting-edge research project focused on dynamic magnetic fields.
- Managed the back-end infrastructure using Express.js and Node.js, optimizing API performance and scalability.
- Implemented relational ERD diagram with microservices structure using MongoDB as a database
- Designed and implemented the front-end interface with Next.js and TailwindCSS, ensuring a modern and user-friendly experience.
- Implemented a microservices architecture using gRPC, enhancing modularity and efficiency in the project.

January 2024 - June 2024

Internship (PT. Surabaya Autocomp Indonesia)
Jobs & Responsibilities:
- Engineered automation solutions that significantly reduced logistics operational costs and manpower.
- Developed a full-stack application utilizing Laravel, streamlining logistics and production planning processes.
- Implemented innovative features to automate production planning and logistics operations.

November 2023 - December 2023
Certificate OCR Scanner (A Flutter-Based Certificate Scanner)
Jobs & Responsibilities:
- Led the development of a Flutter-based mobile application for efficient certificate scanning.
- Integrated machine learning capabilities using TesseractOCR in Python for accurate text recognition.
- Created a robust API with Python Flask to handle OCR functionalities and user authentication using Laravel.

February 2023 - July 2023
MasjidCare Project (A Laravel Web-Based Mosque Funding App)
Jobs & Responsibilities:
- Guided a collaborative team of 3 members through the development phase of an extensive web-based application dedicated to the efficient management of mosques.
- Created data flow for systematic processing and storage of information.
- Managed Back-End stack (Laravel Based) for seamless database interactions.
- Orchestrated Front-End stack (JavaScript, TailwindCSS) for an engaging user interface.
- Integrated a secure Midtrans-based payment gateway for seamless financial transactions.

August 2022 - December 2022
Minimal Bookstore App (A Native PHP Web-Based Bookstore App)
Jobs & Responsibilities:
- Developed a robust database schema and ERD for effective data management.
- Implemented a structured data flow for systematic processing and storage.
- Managed the Back-End stack (Native PHP) for seamless database interactions.

July 2022 - August 2022
Cashier Management App (A Java Swing-Based Cashier Management)
Jobs & Responsibilities:
- Designed the system architecture, outlining components and interactions.
- Implemented a responsive and intuitive graphical user interface using Java Swing.
- Integrated the application with MySQL for secure storage and retrieval of transactional data.
- Developed features for managing various transactions, including cashiers, products, and suppliers.

SKILLS

HARD SKILLS
- Microsoft Office
- Operating System
- Hardware Configuration
- Python
- Java
- PHP
- Laravel
- Javascript
- Dart
- Flutter
- HTML5
- CSS
- Bootstrap
- TailwindCSS
- Machine Learning
- Deep Learning
- Microservices
- gRPC
- Node.js
- React.js
- Next.js
- Restful API

SOFT SKILLS
- Critical Thinking
- Problem Solving
- Algorithmic Thinking
- Teamwork

Languages: Indonesia (Native), English (Conversation)