

MUHAMMAD SATRIO ABDI

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Experienced in web development, database management, and information system development through internships in government and non-profit organizations. Contributed to the development of an Assessor Scheduling System and a PUP Recommendation System at the National Standardization Agency of Indonesia (BSN) using Laravel and PostgreSQL, while also managing database systems, optimizing queries, and supporting operational digitalization. Additionally, developed web-based data management systems and managed healthcare-related data in the non-profit sector. Skilled in Laravel, React, PostgreSQL, MySQL, and software development practices. An Informatics graduate from Telkom University Surabaya from Telkom University Surabaya with strong analytical, problem-solving, adaptability, and teamwork abilities.

EXPERIENCE

LPK Database Manager Intern – Badan Standardisasi Nasional

Jakarta

November 2025 – May 2026

- Managed and developed the LPK database system using PostgreSQL to ensure data integrity and consistency.
- Developed a Laravel-based Assessor Scheduling System to organize schedules efficiently and minimize scheduling conflicts.
- Built a Recommendation System for PUP to LP mapping to support faster and more accurate scope compatibility analysis.
- Designed database structures, optimized queries, and processed data to improve system performance.
- Supported operational digitalization through web-based system development.

Database Management Intern – Yayasan Rekat Peduli Indonesia

Surabaya

February 2024 - June 2024

- Managed tuberculosis patient data through a database-based system.
- Developed and maintained the official profile website of Yayasan Rekat Peduli Indonesia.
- Built a web-based patient data management system.
- Created data visualizations for TB program achievements and monitoring.
- Designed informational media such as infographics and digital content.
- Organized administrative records and activity documentation.
- Prepared reports for volunteers and patient assistance activities.

Programmer – Solite Kids

Madura

January 2019 - May 2019

- Participated in the development of interactive learning applications for children.
- Developed an educational mobile game for learning Arabic using C++.
- Strengthened programming skills while combining creativity and technology in educational applications.
- Gained experience in implementing technology to support children's learning processes.

PROJECTS

Assessor Scheduling System

Laravel, PostgreSQL | 2026

- Developed a web-based system to manage assessor scheduling and reduce scheduling conflicts.
- Designed database structures and implemented scheduling workflows.
- Built features for schedule management and operational monitoring.

PUP Recommendation System

Laravel, PostgreSQL | 2026

- Developed a recommendation system to map PUP to suitable LP based on accreditation scope.
- Designed relational database structures and optimized data processing queries.
- Improved efficiency in the recommendation and decision-making process.

Tuberculosis Screening Website

Python, Machine Learning, Web Development | 2025

- Developed a tuberculosis screening website based on questionnaire data using the Support Vector Machine (SVM) method.
- Implemented classification models to support early TB screening.
- Designed a user-friendly interface for screening and educational purposes

Yayasan Rekat Peduli Indonesia Website

Next.js, Node.js, PostgreSQL | 2024

- Developed and maintained the foundation's profile website.
- Supported content management and information dissemination activities.
- Improved accessibility of organizational information through a web-based platform.

EDUCATION

Telkom University Surabaya

Surabaya

Bachelor's Degree in Informatics | GPA: 3.59/4.00

2021- 2025

Focused on web development, database systems, and machine learning. Developed a final project titled "Tuberculosis Screening Website Based on Questionnaire Using the Support Vector Machine (SVM) Method" to support early digital TB screening. Skilled in software development, database management, problem-solving, adaptability, and teamwork.

SMK TI Annajiyah Bahrul 'Ulum

Jombang

Vocational High School in Software Engineering

2017-2020

Learned the fundamentals of programming, software development, and database management. Developed a final project in the form of an educational math game for children using C++. Experienced in using PHP, CSS, JavaScript, Java, and C++ for application development.

SKILL

- Web Development (Laravel, React, Next.js, HTML, CSS, JavaScript, PHP)
- Mobile Application Development (React Native)
- Database Management & Query Optimization (PostgreSQL, MySQL)
- Backend Development & REST API Development
- Data Processing & Visualization
- Python Programming
- Version Control (Git/GitHub)