

MUHAMMAD SATRIO ABDI

Web Development | Database Management

Jakarta Selatan | +6281274489306 | msatrioabdi@gmail.com | [Linkedin](#) | [Portofolio](#)

Experienced in web development, database management, and information system development with approximately 1 year of internship experience 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 managing databases, optimizing queries, and supporting digital transformation. Skilled in Laravel, React, PostgreSQL, MySQL, and collaborative software development.

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 | [View Project](#)

Laravel, PostgreSQL | 2026

- Developed a web-based assessor scheduling system using Laravel and PostgreSQL to automate scheduling workflows and reduce scheduling conflicts.
- Designed relational database structures and scheduling workflows supporting 1,325 assessors.
- Built schedule management and operational monitoring features to improve scheduling accuracy and operational efficiency.

PUP Recommendation System | [View Project](#)

Laravel, PostgreSQL | 2026

- Developed a recommendation system to map PUPs to suitable accredited laboratories (LPs) based on accreditation scope.
- Designed relational database structures and optimized SQL queries supporting 2,195 accredited laboratories (LPs) and 53 PUP categories.
- Automated the recommendation process to improve efficiency and reduce manual data matching.

Tuberculosis Screening Website | [View Project](#)

Python, Machine Learning, Web Development | 2025

- Developed a tuberculosis screening website using the Support Vector Machine (SVM) algorithm.
- Built a machine learning model achieving 97.14% classification accuracy using questionnaire data from 350 respondents.
- Designed a user-friendly interface to support early tuberculosis screening and health education.

Yayasan Rekat Peduli Indonesia Website | [View Project](#)

Next.js, Node.js, PostgreSQL | 2024

- Developed and maintained the foundation's profile website using Next.js and PostgreSQL.
- Supported content management and information dissemination through a responsive web platform.
- Improved accessibility to organizational information for volunteers and the public.

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

- Database Management: PostgreSQL, MySQL, SQL, Query Optimization.
- Web Development: Laravel, React, Next.js, PHP, JavaScript, HTML, CSS.
- Backend Development: RESTful API Development
- Programming: Python
- Data Processing & Visualization: Microsoft Excel, Power BI
- UI/UX Design: Figma
- Version Control: Git, GitHub
- Mobile Development: React Native.