

MUHAMMAD THIFAAL DZAKI

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Jalan Salam Raya, Sukabumi Utara, Kebon Jeruk, Jakarta Barat

ABOUT ME

Information Systems undergraduate with hands-on experience in software engineering, system analysis, ERP implementation, SAP Business One support, mobile and web development, data analytics, and academic research. Experienced in developing scalable applications using Laravel, Flutter, Python, and SQL while contributing to scientific publications and community-based technology projects. Passionate about building technology solutions that solve real business problems through system analysis and software development.

STRENGTHS AND EXPERTISE

Analytical Thinking
Problem-Solving Ability
Adaptability & Continuous
Learning

System Analysis & Design
Web System Development
Understanding
Business Process Understanding

Data Handling & SQL
ERP Fundamentals
Requirement Gathering &
Documentation

EXPERIENCE

PT.Cipta Optima Ragam Era
SAP Support Intern

Feb 2026 – Agt 2026

- Handled and resolved SAP Business One user support tickets.
- Performed troubleshooting across Purchasing, Sales, Inventory, and Finance modules.
- Developed and modified SQL queries to support business reporting requirements.
- Created, customized, and enhanced reports based on user and business needs.
- Conducted system testing and data validation following system changes and enhancements.
- Managed user authorizations and access rights to ensure system security and compliance.
- Prepared technical documentation and maintained knowledge base articles to support support operations and improve issue resolution efficiency.

Information Systems Student Association (Humanis)
Program Staff

Feb 2025 – Oct 2025

Accomplishments:

- Contributed to the planning and execution of academic and organizational programs, including the Study Club for Information Systems students.
- Served as the Executive Chair for a community service event themed "Raising Digital Awareness: Children, AI, and the Social World" at Tunas Delima Elementary School.
- Collaborated with team members to design learning activities and support student development.
- Assisted in coordinating events, managing documentation, and ensuring smooth communication across committees.
- Developed organizational, communication, and teamwork skills through active involvement in student initiatives.

EDUCATION

Esa Unggul University

Bachelor of Information Systems (In Progress)

SMK AL-HUDA Kebon Jeruk

Vocational High School Diploma (Completed 2022)

ACADEMIC PROJECT EXPERIENCE

Information Systems Project Developer – University Academic Projects

1. Esggul Code Bootcamp Management System

Laravel 12 - Filament - Livewire -MySQL - Midtrans - REST API - Docker

Project Link: github.com/Thifaaldz/esggulcode-2025

- Designed and developed a full-featured bootcamp management platform using Laravel, Filament, and Livewire.
- Built an integrated HRM module including employee management, attendance tracking, payroll calculation, and branch administration.
- Developed a Learning Management System (LMS) supporting course management, enrollment, and student progress tracking.
- Integrated Midtrans Payment Gateway to automate subscription-based payment processing.
- Designed RESTful APIs and middleware for secure communication between application modules.
- Implemented database relationships, authentication, authorization, and business logic.
- Participated in system architecture planning, functional specification, and workflow analysis.

2. Akadify – OCR Certificate Verification System

Python - Tesseract OCR - Docker - MySQL - n8n - WAHA - REST API

Project Link: <https://github.com/Thifaaldz/akadify-2025>

- Developed an OCR engine using Tesseract to extract structured certificate information.
- Designed automated verification workflows using n8n.
- Implemented image preprocessing and text normalization.
- Integrated WhatsApp API for verification notifications.
- Developed REST APIs for OCR services.
- Containerized the application using Docker.
- Improved verification accuracy through rule-based validation.

3. Online Agriculture Distribution & Ordering System (PHP)

Project Link: github.com/Thifaaldz/Distribusi_pertanian

- Built a web-based agriculture product distribution system using pure PHP.
- Developed features including:
 - Online Seed Ordering
 - Agriculture Consultation Services
 - Order Status Tracking
- Focused on database design, requirement analysis, and UI flow to support efficient ordering processes.

4. ERPNext Implementation, Installation, and System Integration

- Configured and utilized ERPNext CRM, Sales, and Marketing modules, including lead tracking, sales management, and marketing workflow setups.
- Conducted requirement mapping and user flow analysis related to ERP business processes.
- Installed ERPNext on Ubuntu 22.04 and deployed the system in a local server environment for academic and integration purposes.
- Performed environment troubleshooting, backend configuration, and basic performance optimization.
- Developed system integrations using Redis API (POST/GET) to connect ERPNext with external components.

5. ETL Processing for Laundry Business using Pentaho

Project Link : github.com/Thifaaldz/Laundry-ETL

- Designed and executed ETL workflows with Pentaho Data Integration.
- Extracted operational data, transformed datasets for analytics, and loaded them into structured repositories.
- Ensured data accuracy, mapping consistency, and error-handling during ETL processes.

6. Mom Care – Mobile Pregnancy Monitoring App (Flutter + Python Backend)

Project Link: github.com/Thifaaldz/MomCare-Mobile

- Developed a mobile application to monitor pregnancy progress and assist expectant mothers.
- Built core features including:
 - Weekly pregnancy monitoring based on patient check-up results.
 - Nearest midwife locator using Dijkstra's algorithm and integrated contact access.
 - Monthly check-up calendar & ultrasound schedule based on pregnancy trimester.
 - Weekly journals and personalized recommendations.
- Collaborated on backend development using Python and participated in API design and integration.
- Carried out system design, data modeling, and functional requirement documentation.

7. Research Member & Journal Publication Support

- Contributed as a research member in two academic projects, supporting the development of scientific journal publications related to:
 - GIS- and Machine Learning–based prediction modeling for hypertension service distribution.
 - Implementation of a digital academic document verification system using School Information Management System (SIM) and encryption technology.
- Assisted lecturers in data collection, preprocessing, spatial data mapping, and initial Machine Learning model testing.
- Documented training activities, system implementation, and evaluation processes at partner schools.
- Supported manuscript drafting, editing, and preparation for journal submission.
- Provided technical and field support, including system simulation, verification testing, and stakeholder coordination.

8. Research Assistant & Co-Author – Lecturer Profiling System (SINTA 4 Journal)

Journal Link : <https://www.hostjournals.com/bulletincsr/article/view/811>

- Contributed to developing a Streamlit-based academic profiling system integrating bibliometric data from Google Scholar, SINTA, and Scopus.
- Assisted in building the Streamlit interface, including data visualization components and interactive profiling features.
- Supported preprocessing and structuring of publication datasets for TF-IDF and Cosine Similarity computation.
- Contributed to writing the discussion section of the journal, including interpretation of similarity results, system performance analysis, and evaluation findings.
- Collaborated with the research team to validate system outputs, test usability, and ensure alignment with academic competency mapping objectives.

9. Simardik – Digital Archive Management System

Project Link: github.com/Thifaaldz/simardik-2026

- Designed and developed a digital archive management system for educational institutions using Laravel 12 and Filament 3.
- Implemented secure document storage with SHA-256–based file deduplication to prevent duplicate uploads and optimize storage usage.
- Built role- and permission-based access control using Filament Shield, ensuring secure document access and downloads.
- Implemented document retention and auto-pruning mechanisms using scheduled Artisan commands to manage expired archives.
- Designed a centralized archive system supporting multiple entities such as students, staff, departments, academic years, PKL, and industry partners.
- Deployed the application using Docker, Nginx, and MariaDB to ensure consistent and production-ready environments.

10. Adaptive Educational Game for Children with Special Needs

Project Link: github.com/Thifaaldz/AbilityLearn

Journal Publication : Journal Publication: [https://doi.org/10.36277/](https://doi.org/10.36277/abdimasuniversal.v8i1.2841)

[abdimasuniversal.v8i1.2841](https://doi.org/10.36277/abdimasuniversal.v8i1.2841)

- Developed a cross-platform mobile application using Flutter for children with special needs.
- Designed a modular educational gameplay architecture consisting of self-care, environmental awareness, emotional recognition, and responsibility learning modules.
- Built an interactive and accessible user interface optimized for children with special needs.
- Integrated audio guidance, interactive animations, and gamification elements to improve learning engagement.
- Implemented offline functionality with local data storage for continuous learning without internet access.
- Participated in usability testing and application deployment during community service activities at Yayasan Yenaiz, Tangerang.
- Collaborated with lecturers and multidisciplinary researchers during system design, implementation, and evaluation.
- Contributed to scientific publication, technical documentation, and application implementation.

11. Gamification of a Digital Snake and Ladder Game Based on Life Score for Adolescent Tuberculosis Education

Journal Publication : <https://ijset.org/index.php/ijset/article/view/1738>

- Contributed as a research member and co-author in the development of a gamified web-based educational application for adolescent tuberculosis (TB) awareness.
- Assisted in designing the digital Snake and Ladder game mechanics integrated with a Life Score algorithm to represent healthy and risky behaviors.
- Collaborated with lecturers and researchers during system analysis, gamification design, implementation, and evaluation.
- Supported prototype development, usability testing, and validation of educational content.
- Assisted in preparing research documentation, technical reports, and scientific publication materials.
- Contributed to manuscript writing, revision, and publication for the International Journal of Social Science, Educational, Economics, Agriculture Research and Technology (IJSET).

LICENSES & CERTIFICATIONS

Learn AI Basics

Mar 2025 – Mar 2028

Issued by Dicoding Indonesia

Certificate: <https://www.dicoding.com/certificates/L4PQE9ND4PO1>

Learn the Basics of Data Science

Mar 2025 – Mar 2028

Issued by Dicoding Indonesia

Certificate: <https://www.dicoding.com/certificates/07Z63MR1YZQR>

Learn the Basics of Data Visualization

Apr 2025 – Apr 2028

Issued by Dicoding Indonesia

Certificate: <https://www.dicoding.com/certificates/53XEDG16YPRN>

Learn Basic Structured Query Language (SQL)

Apr 2025 – Apr 2028

Issued by Dicoding Indonesia

Certificate: <https://www.dicoding.com/certificates/QLZ93EN22Z5D>

Getting Started with Programming with Python

Apr 2025 – Apr 2028

Issued by Dicoding Indonesia

Certificate: <https://www.dicoding.com/certificates/QLZ93EN22Z5D>