

Ardi Wirya Indarto

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I am a fresh graduate in Informatics Engineering from Malikussaleh University with a strong academic background and a deep passion for software engineering. Proficient in front-end web development and data science, I have hands-on experience building responsive web applications and implementing machine learning algorithms. Motivated, results-oriented, and eager to leverage my technical problem-solving skills to create meaningful digital solutions.

EDUCATION

Universitas Malikussaleh (UNIMAL) - Lhokseumawe, Aceh *September 2021 – January 2026*

Bachelor of Informatics Engineering | GPA: 3.75

Thesis: "Clustering Analysis of Rice Productivity Areas in Deli Serdang using the Isolation Forest Algorithm."

SKILLS & COMPETENCIES

- **Front-End Development:** HTML, CSS, JavaScript, Bootstrap, Web Components, Progressive Web Apps (PWA), Webpack.
- **Back-End & Data:** Python, C++, Node.js, Flask, RESTful API, SQL,
- **Data Science & Analytics:** Machine Learning, Data Mining, Clustering, Isolation Forest Algorithm, Data Management & Analytics.
- **Tools & Testing:** Git, GitHub, Microsoft Office, Automation Testing (Unit, Integration, E2E), Web Performance Auditing.
- **Soft Skills:** Team Work, Leadership, Technical Troubleshooting, Client Management, Cross-Cultural Communication, Strategic Planning.

EXPERIENCE

Freelance Software Engineer & Academic Consultant

2023 - Present

Self-Employed

- Developed, debugged, and optimized Front-End structures for various client web projects using HTML, CSS, and JavaScript.
- Provided technical consultation, coding assistance, and comprehensive presentation materials for university-level academic projects.
- Managed client requirements from initial briefing to final delivery, ensuring code scalability and functionality.

Certified Independent Study by Dicoding

August 2023 – December 2023

Front-End Web and Back-End Developer

- Successfully completed a rigorous 918-hour intensive program focused on fundamental to advanced software development.
- Developed responsive web applications, implemented RESTful APIs using Node.js, and managed code repositories via GitHub.
- Collaborated on application documentation and applied Clean Code principles for optimal maintenance.

ORGANIZATION

UKM LDK Al-Kautsar

January 2024 – December 2024

Secretary General & Project Leader

- Spearheaded the "International Collaboration Mobility Students and Community Service" between UNIMAL and UniSZA (Malaysia).
- Directed administrative operations, event execution, and strategic evaluation for over 25 organizational activities.

KEY PROJECTS & PUBLICATIONS

- **Academic Publication and Presenter at the Seminar Nasional Teknologi Informasi dan Teknik Informatika (SENASTIKA) 2024** - Co-authored a published journal titled "Comparison of Accuracy of Household Electricity Consumption Prediction Using Single Exponential Smoothing and Single Moving Average Methods".
- **Data Science Research (Thesis)** - Applied text mining and the Isolation Forest algorithm to cluster agricultural productivity data, handling large demographic datasets.
- **Restaurant Catalogue Progressive Web App (PWA)** - Developed a responsive, native-like web application with offline capabilities, utilizing web storage, semantic HTML, and automation testing.
- **Village Information System (SIGAP) Data Management** - Processed and managed demographic datasets for 200+ households during a community service project, ensuring high data accuracy and confidentiality for local government records.

LICENSES & CERTIFICATIONS

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| • TOEFL ITP (Score: 483) - UNIMAL Language Center | 2026 |
| • Penggunaan Generative AI & AI Praktis by Dicoding Indonesia | 2026 |
| • 2nd Place Typing Speed, Festival Technology Policy (FTP) | 2024 |
| • Front-End Web Developer Expert by Dicoding Indonesia | 2023 |
| • Fundamental Front-End Web Development by Dicoding Indonesia | 2023 |
| • SOLID Programming Principles by Dicoding Indonesia | 2023 |