ARSYAD GRANT SAPUTRO



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SUMMARY

Informatics graduate from Universitas Diponegoro who enjoys understanding how a system is meant to work before it is built: listening to the people who will use it, mapping what they need, and checking that the result really does what it promised. Hands-on experience across web development, field data collection, and decision-support design, with projects spanning healthcare, aquaculture, and community services. Detail-oriented and analytical, comfortable asking questions until a requirement is clear, and eager to keep learning how data and careful testing make software more reliable.

EDUCATION

S.Kom. in Informatics, Diponegoro University **August 2022 – September 2026**

- GPA: 3.55/4.00.
- Relevant Coursework: Software Engineering, Platform-Based Development, Software Testing, Project Management, Software Development Methods, Software Quality Assurance
- Undergraduate thesis: AquaLife, an application for assessing the water quality of aquaculture areas

WORK EXPERIENCE

Web Developer Intern, Klinik Pratama Kalisari Healthcare **January 2025 – February 2025**

- Developed a web-based appointment booking website to simplify the patient registration process and help reduce waiting times at the clinic.
- Contributed to full-stack web development, supporting appointment booking functionality for healthcare services.
- Worked with PHP and MySQL to support the development of the web application.

Spatial Database Developer Intern, Dinas Perikanan Jepara **July 2024 – August 2024**

- Helped build the Marine and Fisheries spatial database of Jepara Regency in ArcGIS, organizing the collected data into a structured, map-ready format.
- Conducted field surveys across several sectors in Jepara Regency to gather the source data.

IOT Research Team Member, CE-MEBSA UNDIP **Januari 2025 - September 2026**

- Assisted in installing the water-quality sensors for the IoT monitoring system used in Ce-MEBSA's Smart Robotic IMTA cage research.
- Helped build the web-based monitoring dashboard under a mentor's guidance, featuring live monitoring, charts and numeric displays, analysis graphs, multi-user access, alarms, and GPS position tracking.
- Developed the early web prototype for water-quality assessment, which I later extended into AquaLife with the WSM and SAW methods.

PROJECT

AquaLife, Ce-MEBSA UNDIP | Undergraduate Thesis **August 2025 - September 2026**

- Built AquaLife a web app that assesses aquaculture water quality using the WSM and SAW methods, serving the company, researchers, and members through a subscription membership.
- Modeled requirements from stakeholder interviews using the ICONIX Process (10 use cases, SRS, and UML diagrams).
- Developed with Laravel, Inertia.js, React, and MySQL, including role-based access and Midtrans payments, and validated with test cases and black-box testing.

RWPay, Kelurahan Sambiroto | Community Service Program **June 2025 - July 2026**

- Built RWPay, a web app that digitizes the community dues (iuran kas) bookkeeping of RW 08, Sambiroto, Semarang, replacing paper ledgers with a centralized and transparent system.
- Developed resident data management, payment tracking (paid, pending, overdue), a dashboard for collections and arrears, monthly bill generation automated with PostgreSQL functions, and Excel and PDF report exports.
- Built with Next.js, TypeScript, Tailwind CSS, and Supabase (PostgreSQL).

ORGANIZATIONAL EXPERIENCE

Staff of Research and Development, HMIF UNDIP **January 2023– February 2024**

- Executed organizational research and gathered member feedback to support the restructuring and improvement of HMIF Undip's departmental functions.
- Conducted periodic performance evaluations and compiled assessment reports to ensure board initiatives remained aligned with member needs.

CERTIFICATIONS

- **Cloud Computing Course by Alibaba Cloud** (2024): Completion of Alibaba Cloud Certificate Associate Cloud Computing.
- **Database Programming with SQL Course by Oracle Academy** (2024) : Completion of implement database designs by creating physical databases using SQL. Basic SQL syntax and the rules for constructing valid SQL statements are introduced.
- **Database Design Course by Oracle Academy** (2023): Completion of analyze complex business scenarios and create a data model, culminating with a project that challenges students to design a database solution for a business or organization.

ADDITIONAL INFORMATION

- **Hard Skills:** Microsoft Office (Word, Excel, Power Point), MySQL, Java, Python, C++, PHP, JavaScript, ReactJS, NextJS, Laravel, Wordpress, RESTful API Design, Tailwind CSS, GitHub
- **Soft Skills:** Critical thinking, analytical thinking, communication, stakeholder communication, problem solving, teamwork, time management, attention to detail, eagerness to learn
- **Spoken Languages:** Indonesian (native), English (Fluent)