



RAFLI AFRIZA NUGRAHA

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SUMMARY

Informatics student with a deep interest in information systems and AI/ML, supported by hands-on experience in various IT projects. Proficient in problem-solving, leadership, communication, and project management, with a strong drive to innovate and deliver impactful, ethical technology solutions that address real-world challenges effectively.

WORK EXPERIENCE

Full Stack Developer, Physics Department of Syiah Kuala University **Mar 2025 - May 2025**

- Developing comprehensive laboratory management systems with public landing pages and admin dashboards using Laravel framework and MySQL database.
- Building responsive web interfaces using Tailwind CSS for laboratory inventory management, equipment rental tracking, and visitor scheduling systems.
- Implementing CRUD operations and database relationships for managing laboratory equipment data, rental records, testing requests, and maintenance histories.
- Creating dynamic form handling and validation systems for online equipment rental requests, laboratory visit applications, and sample testing submissions with real-time status tracking.

Frontend Developer, HiEvents **Jun 2024 - Jun 2025**

- Converting designs from the UI/UX team into responsive web pages.
- Creating and developing reusable UI components.
- Assisting with frontend projects that require additional attention, such as new feature launches or major UI updates.
- Integrating APIs from the backend to ensure seamless data flow and functionality on the frontend.

PROJECT

AquaLink **Dec 2024 - Feb 2025**

- Developing a smart contract water credit trading platform with conservation incentive systems, enabling users to trade water credits and participate in environmental sustainability programs.
- IoT (Internet of Things) tool for detecting water discharge and automatic taps
- Historical visualization of water usage data and implementing Midtrans payment gateway integration for secure transaction

Findora **Dec 2024**

- Developed an Indonesian News Search Engine using TypeScript, Next.js, Express, and MongoDB, enabling fast and relevant news search through the TF-IDF algorithm.
- Built with a corpus of local Indonesian news, delivering accurate search results with an interactive and user-friendly interface.

Aspirasi Mahasiswa Politeknik Citra Widya Edukasi

Nov 2024

- Developed a student aspiration platform for Politeknik Citra Widya Edukasi using the MERN stack to collect and manage student feedback efficiently.
- Ensured secure data handling and seamless communication between frontend and backend through RESTful APIs and MongoDB integration.

GlucoGuardian

Oct 2024

- Developing a web-based diabetes diagnosis application using Next.js for frontend and Express.js for backend, implementing the Dempster Shafer algorithm for accurate medical diagnosis of Type 1, Type 2, and gestational diabetes.
- Building interactive user interfaces and interactive medical data input forms using Next.js, enabling users to submit health information and receive diabetes risk assessments.
- Designing and implementing MongoDB database schemas for storing patient medical records.
- Deploying and managing containerized applications using Docker, configuring Nginx as reverse proxy, and hosting on AWS EC2 for scalable cloud infrastructure with automated deployment pipelines.

EDUCATION

Bachelor of Informatics, Syiah Kuala University

Aug 2022 - Present

Last GPA: 3.74

Organizational Experience:

- Head of the Student Development and Research Department, Informatics Student Association (HMIF) USK
- Deputy Head of the Student Development and Research Department, Informatics Student Association (HMIF) USK
- Academic and Developer Team, Informatics Club USK

ADDITIONAL INFORMATION

- Technical Skills:** Express JS, Laravel, Next JS, RESTful API, SQL & NoSQL Database Management, Tensorflow, Internet of Things, Linux, Docker.
- Softskills:** Leadership, Communication, Problem Solving, Project Management.
- Languages:** Indonesian, English (basic)