

FIKRI RAMADHAN

Mathematics Undergraduate at ITS

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OBJECTIVE

A software developer with a strong mathematical foundation, experienced in building full-stack web applications using React and Laravel framework. Seeking opportunities to learn, contribute, and collaborate on a dynamic team to create impactful digital products.

EXPERIENCE

Ship Operation Intern

Jul 2025 – Aug 2025

PT. Pelayaran Nasional Indonesia (Persero)

- Developed a full-stack web application (simPLAN) to optimize ship scheduling and improve operational efficiency.
- Responsible for structuring ship schedule data and automating Excel data entry into the system.
- Implemented a conflict-detection algorithm to proactively flag overlapping schedules at the same port.
- Designed an interactive Gantt chart timeline for real-time schedule verification, reducing manual errors and workload.

PROJECTS

simPLAN: Ship Planning & Scheduling Information System

2025

Internship Full-Stack Project

- Designed and developed a comprehensive web application for planning and scheduling ship voyages, including docking periods and operational routes.
- **Backend:** Built a RESTful API using **Laravel (PHP)** to manage ship schedules, docking, and user authentication.
- **Frontend:** Created a dynamic and responsive user interface with **React**, featuring data visualization for ship schedules and interactive forms for data input.
- **Database:** Structured and managed the application's data using **MariaDB**, with schema defined and versioned through Laravel Migrations.
- **DevOps:** Utilized **Docker** and Docker Compose for containerization, ensuring a consistent development and deployment environment across backend, frontend, and database services.

SKILLS

- **Languages:** Java, JavaScript, PHP, Python, HTML, CSS, LaTeX, MATLAB
- **Frameworks:** Laravel, ReactJS, Node.js, TailwindCSS
- **Tools:** Git, Docker, MySQL/MariaDB, Linux/UNIX, Figma
- Strong analytical thinking, mathematical modeling, and fast learning

EDUCATION

B.Sc. in Mathematics and Computer Science

2022 – Expected 2025

Institut Teknologi Sepuluh Nopember (ITS)

- Pursuing a bachelor's degree with strong emphasis on mathematical reasoning, computational methods, and software development.
- **Relevant Coursework:**

- *Mathematics*: Discrete Mathematics, Linear Algebra, Real Analysis, Numerical Methods, Optimization, Probability and Statistics.
- *Computer Science*: Software Engineering, Web Development, Algorithm Design and Analysis, Cryptography, Digital Image Processing, Mathematics Software.

High School Diploma in Natural Sciences

2019 – 2022

SMA Negeri 1 Cikarang Pusat

- Focused on advanced topics in Mathematics, Physics, and Chemistry.

VOLUNTEER EXPERIENCE OR LEADERSHIP

Guest Speaker

2024

Basic Media Schooling (BMS) by HIMATIKA ITS

- Delivered a presentation on fundamental design principles and Figma software to Mathematics students, achieving a 93% satisfaction rate from 30+ participants.

Head of Publication and Quality Control

2024

BEM FSAD ITS 2024

- Conceptualized design and branding, boosting Instagram interaction by 20% compared to the previous year.

Head of Digital Design Subdivision

2023

OMITS 17th - Olimpiade Matematika ITS

- Optimized job description management for the Digital Design staff, which improved resource efficiency.

Digital Media Staff

2023

ITS Challenge 2023

- Designed and edited the aftermovie video, successfully increasing social media engagement.