

Patra Rafles Wostyla Sinaga

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PROFESSIONAL SUMMARY

Results-driven Full-Stack Developer and Project Leader with a 3.92 GPA. Leveraging 3+ years of project-based experience to build modern web applications, with expertise in Next.js. Combines a passion for competitive programming and analytical problem-solving with a natural aptitude for leading development teams to success.

EDUCATION

Universitas Sumatera Utara	Medan, Sumatera Utara
<i>Bachelor's Degree student of Information Technology GPA: 3.92/4.0</i>	<i>Sep 2023 - Present</i>

COMMITTEE EXPERIENCE

Christian Students of Information Technology	Universitas Sumatera Utara
<i>Funding Team Member</i>	<i>2024</i>

- Spearheaded fundraising initiatives for a major campus event, orchestrating all offline sales operations from strategic planning to final execution.
- Developed and implemented effective sales strategies that significantly contributed to the committee's financial targets.
- Played a key role in coordinating the sales team to ensure a seamless workflow, efficient inventory management, and a high-quality customer experience.

PROJECTS (Click on the title for more details)

Apotek Pelangi - Online Pharmacy Platform	Present
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- Serving as Project Manager and Backend Developer, led a team of 4 in developing an online pharmacy application grounded in **User-Centered Design (UCD)** principles, managing the project from initial low-fidelity prototype to a live, user-ready platform.
- Engineered the backend using **Next.js** and **NeonDB**, developing key features such as a live search function, loading state indicators, and the primary online ordering & prescription fulfillment system.
- Successfully integrated the **Midtrans payment gateway** for secure transactions and implemented an automated **email notification** system for pending, successful, and failed payments to enhance user experience.
- The final application was built with a modern stack including **Next.js**, **TailwindCSS**, and **Shadcn UI** to create a responsive and intuitive interface.

Recipe Generator With Integrated AI	Present
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- Developed a personal full-stack project to master **React.js** and **AI integration**, creating a web app that generates recipes based on user-provided ingredients.
- Built a **responsive** and **interactive** user interface from scratch using React.js for seamless user input and recipe display.
- Integrated **Google's Gemini API** on the backend to power the core feature, successfully generating unique and relevant recipes in real-time.

Poskesdes Lau Baleng	2024
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- As Team Lead and Full-Stack Developer, spearheaded the project from conception to successful deployment, leading a team of 5 members.
- Engineered a full-stack online ordering platform using Laravel, allowing residents to purchase available medicines directly online.
- Developed a dynamic user interface with Livewire and successfully integrated the Midtrans payment gateway to

enable secure and automated online transactions.

Sparks - Social Media Web App

2024

- Served as Project Manager and Backend Developer, strategically assigning roles (Frontend, Backend, Database Administrator) to a team of 4 to maximize productivity and ensure project completion.
- Engineered the core backend functionalities using **Laravel 10** for a complete social media experience, including RESTful APIs for user posts (CRUD), follows, likes, and comments.
- Successfully managed the development lifecycle, delivering a functional and user-ready social media web application.

AWARDS

Second place in HIMATIF USU's 2025 Competitive Programming Competition

Present

Top 1 Final Projects in HIMATIF USU's 2025 Best Final Project Competition

Present

Top 1 Final Projects in HIMATIF USU's 2024 Best Final Project Competition

2024

RELATED CERTIFICATION (Click for details)

Learn React

Scrimba

Learn Typescript

Scrimba

SKILLS

Programming Languages: C, C++, JavaScript, TypeScript, Python, PHP, Dart, Kotlin

Frontend: HTML, CSS, React.js, Next.js, TailwindCSS, Flutter, Livewire

Backend: Node.js, Express.js, Laravel, Filament, Strapi

Database: MySQL, MongoDB, NeonDB

Tools & Platforms: Git, Postman, VSCode

Languages: Indonesia (Native), English (Intermediate)