

RAIHAN OZA SAMUDERA SIREGAR

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I am a **Full Stack Developer** with over 2 years of professional experience and a Bachelor's degree in Information Systems. I specialize in developing scalable web applications with a solid foundation in **software engineering**, system design, and application development.

EDUCATION

Muhammadiyah University Of North Sumatera

Bachelor Degree in Information Systems Engineering

Cumulative GPA: 3.65/4.0;

Relevant Coursework: Algorithms; Data Structures; Software Engineering; Object-Oriented Programming; Database;

Medan, ID

Sep 2020 – Sep 2024

PROFESSIONAL EXPERIENCE

PT. TRANSPORINDO AGUNG SEJAHTERA

Fullstack Web Developer - Fulltime

Medan, ID

Aug 2024 – Present

- Designed, developed, and maintained multiple internal web-based systems to support core business operations using **Next.js** and **NestJS**.
- Built an **Internal ERP Web Application for Export Cargo Shipping**, responsible for managing export loading data, operational records, and internal company workflows to improve data accuracy and efficiency.
- I Developed a **Human Resource Management System (HRMS)** to manage employee data, leave requests, approvals, and leave balance tracking, ensuring structured and centralized HR data management.
- Created a **WhatsApp Bot Monitoring Service** to monitor website and server availability; the system automatically sends real-time alerts to WhatsApp groups when services are down, improving response time and system reliability.
- Implemented **Microsoft SQL Server** as the primary database, handling data modeling, query optimization, indexing, and large-scale data operations.
- Applied **Redux** for predictable and scalable state management across complex frontend applications.
- Actively involved in full development lifecycle including requirement analysis, system design, development, testing, debugging, deployment, and maintenance.
- Collaborated closely with internal teams to translate business requirements into technical solutions and ensure system stability and scalability.

DINAS SOSIAL KOTA MEDAN

Front End Developer - Internship

Medan, ID

Aug 2023 – Dec 2023

- Collaborated with 5 cross-function teams to brainstorm, design, and develop a service product to help people get hired.
- Developed a website for the general public to easily check their social assistance status. (**ReactJs, Typescript, Zustand, Tailwind, ShadCn Ui**)
- Implemented front-end engineering best practices and patterns, presenting these strategies to other engineers.
- Responsible for brainstorming, developing, testing, collaborating, code reviewing, debugging, and deploying frontend features in 3 different teams. (**GitHub, CI/CD**)
- **Aplans Booster Project:** As a Front-End Developer, I used React.js, React Query, Tailwind CSS, and TypeScript to create dynamic and responsive user interfaces. I also integrated Postman API for efficient communication with the backend and contributed to effective planning strategies within the team. Version control and collaboration were maintained through GitHub, ensuring smooth teamwork and feature integration.
- **Aplans Mobile Verivali:** Developed a mobile application using React Native, React Redux, React Query, and Tailwind CSS for responsive interfaces. Postman API was used for backend communication, while GitHub ensured version control and transparent collaboration within the team.
- Improved the consistency of the frontend codebase by setting up a linter and formatter. (**ESLint, Prettier**).

PT.METROMATIKA TEKNOLOGI REKAYASA

Full stack Developer & Mobile Developer

Medan, ID

Jan 2023 – Aug 2023

- Developed and launched multiple web applications, including admin dashboards and mobile applications, for official services in Indonesia using modern technologies such as React (**React (Next Js), Laravel, Tailwind CSS, Zustand, Redux, React Query**)
- Ensured the security and optimal performance of applications by conducting regular maintenance, updates, and improvements to the codebase.
- Optimized mobile application performance across various devices, delivering a seamless user experience.

- Provided innovative and scalable solutions to complex challenges in mobile application development, enhancing the overall functionality and user engagement.
- Collaborated closely with cross-functional teams to align business goals with technical requirements, ensuring the successful delivery of high-quality digital solutions

DISKOMINFO KOTA MEDAN

Fullstack Developer - Internship

Medan, ID

Aug 2022 – Dec 2022

- Gained hands-on experience in front-end engineering, with a focus on delivering high-quality code and optimizing web performance using React and TypeScript. (**React, TypeScript**)
- Developed the "**Balitaku**" mobile application in just two months, utilizing React Native to create a user-friendly interface aimed at supporting mothers.
- Engineered a QR code-based system that integrated with other applications, streamlining interactions and enhancing functionality for users.
- Delivered a seamless, easy-to-use application tailored to help mothers access critical services with ease and efficiency.
- Designed and built a website interface that enables the Medan city government to create additional sites for various municipal services.
- Managed and supported over 100 users, integrating their data with other applications to facilitate smooth communication and data transfer across platforms.

PT.INDONESIA GADAI OKE

Fullstack Developer - Internship

Medan, ID

Jan 2022 – Mei 2022

- Managed The Pawnshop System at PT.INDONESIA GADAI OKE with more than 10 outlets in Sumatera Utara (**PHP, Laravel, Bootstrap**)
- Accomplished Manage Pawnshop data with more than 100 Transactions every day
- Succeed doing college and work while maintaining control of college grades with 3.62 GPA and doing a nice work at company
- Always Solved System Problems on time so as not to interfere with the running the system in the company and so almost that 90% of other workers are happy with developed system
- Successfully Improved the convenience of the system, Resulted in an increase in at transaction of up to 40% and convenience for other workers

PROJECTS

Ameera Travel Umroh – Finance Website

Jul 2024 – Sep 2024

- Designed, developed, and deployed a comprehensive finance website, handling all aspects of frontend, backend, and DevOps independently.
- Built responsive and user-friendly interfaces using React.js, Tailwind CSS, and TypeScript, ensuring an intuitive user experience.
- Developed a secure and scalable backend using Node.js, Express.js, and PostgreSQL, implementing APIs and integrating business logic.
- Implemented user authentication, role-based access control, and secure data handling practices (JWT, encryption) to protect sensitive financial data.
- Established monitoring tools and logging systems to track website performance and ensure continuous uptime and optimal security.
- Managed version control and collaboration using GitHub, ensuring clean codebase and efficient project management.

Aplans Boster – Website

Oct 2023 – Dec 2023

- Work with the ui/ux team and backend developers in developing a website that is useful for people to check their data.
 - User-friendly interface to fill out forms and view submission history.
- Utilized: **React JS, Vite, React-Query, Shadcn UI, Zustand, Tailwind CSS, Laravel (Backend).**

Aplans Verivali – Mobile Application

Aug 2023 – Sept 2023

- Mobile application created for verification and validation of data on residents who receive assistance funds
- Utilized: **React Native, Zustand, React-Query, Whatsapp Gateway.**

Balitaku – Mobile Application

Oct 2023 – Dec 2023

- Mobile application created for verification and validation of data on residents who receive assistance funds
 - Made for prevent and reduce disease rate stunting for baby in Medan, and provides various kinds of information related to baby health in it
 - Used OTP sent via whatsapp user For authentication
- Utilized: **React Native, Express Js, React-Query, Whatsapp Gateway.**

SIIMPAL – Mobile Application

Mei 2023 – July 2023

- Attendance application for the tourism office of Medan city, where employees declare their attendance by selfie in this application.

Utilized: **React Native**.

TECHNICAL SKILLS

Languages: Proficient in TypeScript, JavaScript, HTML, CSS, SQL.

Technologies: PostgreSQL, MongoDB, Prisma, React (SPA / SSR / Static), Next.js, Laravel, React Native, Express.js, Node.js.

Soft Skills: Strong problem-solving abilities, excellent communication, teamwork, work ethic, adaptability, creativity, and innovation.

