

SEBASTIAN BELMERO SITORUS

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Profile

Full-stack Software Engineer with 2+ years of experience building scalable web applications. Proficient in Vue.js for frontend interfaces and Node.js ecosystems (Next.js, Express) for backend architecture. Experienced in delivering end-to-end solutions for startups and digitalizing institutional processes. Proven ability to integrate AI APIs and manage databases (SQL/NoSQL) in agile environments.

Education

• Bachelor of Information Technology

University of North Sumatra, Medan, Indonesia

2019 - 2025 - GPA: 3.58 / 4.00

Thesis: Solar Radiation Prediction Using Deep Gaussian Process Algorithm

Professional Experience

IT Intern

PT GS Battery

Karawang, Indonesia

November 2025 - Present

- Developed and maintained internal desktop applications using C# and DevExpress, enhancing UI/UX and streamlining operational data management.
- Designed and implemented Robotic Process Automation (RPA) workflows to automate repetitive administrative tasks, significantly reducing manual errors and processing time.
- Integrated Bardi smart device ecosystems into company infrastructure, managing IoT device connectivity and automation logic for facility monitoring.
- Collaborated with the IT team to debug software issues and optimize system performance, ensuring high availability of critical business tools.

Vue.js Developer

PT. Maler Kreasi Indonesia

Remote, Indonesia

August 2025 - November 2025

- Spearheading frontend development for a comprehensive RT/RW (community management) application, digitizing services such as citizen data management, community dues (Iuran Warga), waste bank (Bank Sampah), and financial reporting.
- Develop and maintain interactive and reusable UI components using Vue.js.
- Collaborate with UI/UX and backend teams to integrate REST APIs into the frontend application.
- Implement state management (e.g., Pinia/Vuex) to ensure efficient data flow across the application.
- Conduct testing and debugging to optimize frontend performance and ensure a responsive user experience.

Part-Time Programmer

Direktorat Digitalisasi dan Integrasi Sistem Universitas Sumatera Utara

Medan, Indonesia

July 2024 - December 2024

- Developed and maintained Mekar web application for employee performance management using Laravel framework and Vue.js frontend
- Implemented responsive user interfaces utilizing Ant Design Vue (antdv) component library
- Collaborated with cross-functional teams on feature planning, design, and system integration
- Conducted comprehensive testing and debugging to ensure application reliability and performance
- Contributed to digital transformation initiatives, enhancing efficiency of employee evaluation processes

Web Developer

PT. Adikara Cipta Aksa

Remote, Indonesia

September 2023 - March 2024

- Designed and developed comprehensive website for Legal Consultation services (Konsultasi Hukum Indonesia)
- Integrated WordPress CMS with Laravel framework to deliver complex functionalities and seamless user experience
- Ensured optimal website performance through efficient code implementation and system architecture
- Collaborated with stakeholders to gather requirements and deliver solutions aligned with business objectives

Laboratory Assistant

Information Technology Laboratory Group

Medan, Indonesia

September 2021 - June 2023

- **Human-Computer Interaction:** Facilitated practical sessions and provided technical support for HCI software and experimental projects
- **Database System Management:** Conducted practical sessions on database design, implementation, and management using industry-standard DBMS
- **Server Administration System:** Assisted students with network configuration and server software setup for system administration projects
- Developed comprehensive tutorials and learning materials to enhance student understanding of core IT concepts
- Evaluated student performance and provided constructive feedback on technical implementations

Technical Skills

Programming Languages: JavaScript (ES6+), TypeScript, PHP, Python, C#, HTML5, CSS3

Frameworks & Libraries: Vue.js (Expert), React.js, Next.js, Express.js, Laravel, Tailwind CSS, Prisma ORM, Ant Design, Shadcn/UI

Databases: MySQL, MongoDB, PostgreSQL

Development Tools: Git, Postman, Node.js

Specializations: Full-Stack Development, AI API Integration (Gemini), RESTful APIs, State Management (Pinia/Vuex)

Key Projects

- **AI-Powered Content Generation Platform:** Built a full-stack SaaS using **Next.js (App Router)** and **Prisma**. Integrated Gemini API to automate SEO-friendly article creation and utilized Markdown for content rendering.
- **Job Tracker Application:** Developed a modern job tracking system with **Next.js** and **TypeScript**. Features include AI-based resume parsing, secure Google Authentication, and real-time application analytics.
- **Mekar - Employee Performance System:** Spearheaded the frontend development using **Vue.js** and **Laravel** for Universitas Sumatera Utara. Implemented complex state management and reusable components for 100+ internal users.
- **Solar Radiation Prediction Research:** Undergraduate thesis implementing Deep Gaussian Process algorithms for time-series forecasting, demonstrating strong capability in **Python** and data analysis.

Certifications & Recognition

- **Certificate of Appreciation - 2024**

Outstanding contributions to the Directorate of Digitalization and System Integration
Universitas Sumatera Utara — December 30, 2024

- **Web Developer Internship Certificate**

Certificate No. 0005/AKASA/SM/III/2024