

SEBASTIAN BELMERO SITORUS

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Profile

Fresh graduate Information Technology professional with comprehensive experience in full-stack web development and deep learning research. Demonstrated expertise across multiple programming languages, frameworks, and databases through practical work experience and academic projects. Completed undergraduate thesis on solar radiation prediction using Deep Gaussian Process algorithms, showcasing strong analytical and research capabilities. Proven track record in developing scalable web applications and contributing to institutional digital transformation initiatives. Seeking opportunities to leverage technical skills and research background in challenging development roles.

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

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, PHP, TypeScript, Python, HTML5, CSS3
Frameworks & Libraries: Laravel, Vue.js, React, Angular, Express.js, Adonis.js, React Native, Flutter
Databases: MySQL, MongoDB
Development Tools: Git, Postman, Node.js
Specializations: Full-Stack Development, Deep Learning, Machine Learning Algorithms

Key Projects

- **Mekar - Employee Performance Management System:** Full-stack web application developed with Laravel and Vue.js, serving University of North Sumatra's digital transformation initiatives
- **Legal Consultation Platform:** Professional website for PT. Adikara Cipta Aksa combining WordPress CMS and Laravel for enhanced functionality
- **Solar Radiation Prediction Research:** Undergraduate thesis project implementing Deep Gaussian Process algorithms for renewable energy forecasting

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