

# Christian Tambunan

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## Summary

Full-Stack Software Engineer with expertise in ERP, business process automation, and finance. Skilled in Laravel, Next.js, Flutter, RESTful API and gRPC to deliver scalable systems that drive operational efficiency and data-driven decisions. Experienced in supporting ERP and digital transformation initiatives aligned with business goals. Strong collaborator in cross-functional teams and adaptive in both agile and waterfall environments. Eager to contribute to global-scale IT systems and passionate about delivering human-centered digital solutions.

## Professional Experience

<b>PT Smut Teknologi Indonesia</b>	Medan, Indonesia
<b>Software Engineer</b>	2022 – 2025

- Served as a key engineer at an IT consulting firm, delivering custom software solutions for government and private clients across manufacturing, workforce management, and public service sectors.
- Engineered scalable backend systems using Laravel, gRPC, and RESTful APIs, and built user-friendly web and mobile interfaces using Next.js and Flutter.
- Collaborated directly with clients and stakeholders to analyze business needs and translate them into robust, maintainable software architectures.
- Conducted regular progress presentations—from design and development to deployment—to gather client feedback and ensure alignment.
- Successfully deployed systems that reduced manual workflows by up to 60% and improved operational transparency and service delivery.

<b>PT Langkat Nusantara Kepong</b>	Medan, Indonesia
<b>Apprenticeship IT Support Technician</b>	2020

- IT Support professional with strong problem-solving and analytical skills.
- Experience in maintaining and supporting IT systems in the palm oil plantation industry.
- Skilled in diagnosing and resolving hardware and software issues.
- Improved ticket resolution time through effective troubleshooting and remote support.
- Delivered user-focused solutions that increased system reliability and customer satisfaction.

## Project and Achievement

- **SMUT ERP**  
Built a full-suite ERP covering manufacturing, logistics, digital scale, HR, and finance. Transformed previously manual processes—such as sales, attendance, purchasing, expedition, and delivery order tracking—into a fully structured and automated system, Led problem-solving efforts across departments to align system logic with varying client workflows, ensuring smooth adoption and scalability.
- **ERP System for Multi-Branch Operations – ASSA Group**  
Led the design and development of an integrated ERP ecosystem consisting of a central ERP system, tenant-level ERP modules, and companion mobile apps for branch performance monitoring and POS operations.
  - Built architecture to support payroll, inventory, product sales, and loss tracking across multiple locations.
  - Developed POS mobile app for sales transactions and real-time data sync.
  - Designed monitoring mobile app for branch-level performance dashboards.
  - Collaborated with stakeholders during analysis, development, and deployment phases.

\*Project was successfully deployed and operated for several months before discontinuation due to internal business decisions outside the development team's scope.\*
- **SIPORA (Sistem Informasi Pemuda dan Olahraga kota Medan)**  
Created a web-based platform for managing athletes, facilities, events and reservations. Handled over 500 athlete records and 141 facility pricing rules, and transformed manual facility booking into a structured online reservation system accessible to the public, significantly improving transparency and service efficiency.
- **SIDUTA (Sistem Informasi Terpadu Ketenagakerjaan – Kota Medan)**  
Designed, developed, and deployed a web portal for the Medan City Manpower Office to manage job vacancies, internships, training programs, workforce recruitment, company data, and training institutions. The system now handles over 1,300 job listings and 10,000 registered workers. It streamlines workflows and significantly simplifies tasks for the agency, including company and training institution data management. Acted as the primary technical

liaison between the development team and government representatives, navigating evolving requirements and aligning system features with institutional goals.

- **PILEGS App**

Developed web and mobile applications to conduct quick count voting during regional elections in Tapanuli Selatan and Padang Lawas Utara, ensuring real-time monitoring and high data accuracy. Integrated with mobile units for live result reporting, achieving a margin of error of only 0.2% compared to official vote counts, and enabling faster, transparent, and data-driven election monitoring. Led coordination between technical teams and field operatives to ensure accurate data capture in remote areas. Implemented automated data reconciliation methods to detect and correct reporting anomalies in near real-time.

- **KSU App**

Built a multipurpose cooperative website to manage member registration, savings and loan transactions, program participation, and financial reporting. Digitized previously manual internal processes, enabling structured, automated cooperative operations and improving transaction accuracy and financial transparency.

- **Mobile Komina App**

Built the mobile app for a cooperative platform with member registration and savings features that integrate seamlessly with the existing web backend.

- **Neural Machine Translation – Bahasa Indonesia to Batak Toba**

Built an end-to-end NMT model using a sequence-to-sequence GRU architecture to translate between Bahasa Indonesia and Batak Toba.

- Trained on a custom corpus built from translated text pairs and applied tokenization, padding, and embedding techniques.
- Evaluated translation quality using BLEU score and manual linguist review.
- Final year project aimed at preserving regional language through technology.

## Education

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### University of North Sumatera

B. Computer Science

2017 – 2022

- Recipient of academic scholarship during undergraduate studies.
- Participated in student Christian organizations for computer and information technology as equipment coordinator.
- Graduated with a GPA of 3.75/4.00.

### SMAN 1 Matauli Pandan

Natural Science Track

2014 – 2017

- Awarded a scholarship by the Tapanuli Tengah local government.
- Served as the spiritual coordinator of the student organization.
- Chairman of the Christmas celebration committee.

### Skills:

Languages: PHP, JavaScript, Dart, TypeScript.

Frameworks & Libraries: Laravel, NextJS, Flutter, MERN, Bloc.

Databases: MySQL, PostgreSQL, Sqlite, Firebase, MongoDB.

DevOps & Tools: Nginx, Apache, Linux, Ubuntu, Git, Gitlab, Github, Jira.

Methodologies: Agile, Waterfall.

Concepts: RESTful API, Reverse API (Webhooks), Event-Driven Architecture, Object-Oriented Programming, Services and Repository Pattern, Messages Broker.

Other Skills: Data Analytics, Office Automation, Digital Transformation, Stakeholder Collaboration.