



# Misael Tampubolon

081271374310 | misaeltampubolon9@gmail.com | <https://www.linkedin.com/in/misael-tampubolon-4a9042298/> | <https://misaeltpb.github.io/portofolio/> sumatera utara

A final year Computer Science student at Del Technology Institute with interests in DevOps, Quality Assurance, Networking, Cloud Computing, internet of things and web development. I possess excellent leadership, public speaking, and communication skills, am a team player, and am adaptable to new challenges. During my studies, I have completed several website development projects and acted as a systems analyst in developing project documentation..

## Organisational Experiences

Institut Teknologi Del - Laguboti, Indonesia

Aug 2023 – Present

Student Association of computer engineering - HIMATEK

- I have been an active member of HIMATEK since August 2023. In this organization, I participate in various activities and events, such as member development programs and collaborative projects, which help me enhance my skills, expand my network, and learn from other Computer Engineering students.

## Education Level

Institut Teknologi Del - Laguboti, Indonesia

Aug 2023- Present

Diploma In Computer Technologi – GPA 2.85/4.00

## Project Experience

- **Food ordering application using QR Code.** Jan 2024- Jun 2024  
In this project, my teammates and I developed a QR Code-based food ordering website designed to simplify the ordering process in restaurants and cafés. The system allows customers to scan a QR Code placed on their table to instantly view the menu, place orders, and send them directly to the kitchen without the need for direct interaction with staff. I was responsible for designing the user interface, integrating the ordering system, and conducting functional testing to ensure a fast, efficient, and responsive user experience. This project provided me with my first hands-on experience in collaborative web development, interactive system design, and database management.
- **Fish feeding and water quality monitoring system powered by solar energy** Jan 2025-Jun 2025  
In this project, my teammates and I developed an automated fish feeding and water quality monitoring system powered by solar energy. The system is designed to assist fish farmers in managing feeding schedules and monitoring key water parameters such as pH, temperature, and water level in real time. I served as both a Hardware Developer and System Programmer, where I focused on designing the hardware architecture, programming the automation logic using ESP32, and integrating various sensors including pH sensors, ultrasonic sensors, RTC DS3231, servo motors, relays, and LCD displays. The system is connected to the Blynk IoT platform, allowing remote monitoring and control through the internet. This project enhances efficiency and sustainability in aquaculture management by utilizing renewable energy and IoT-based automation
- **CRC program for data error detection** Oct 2023-Dec 2023  
In this project, I developed a program to detect data transmission errors using the Cyclic Redundancy Check (CRC) algorithm. The program is designed to identify errors that may occur during data transmission by generating and verifying CRC codes. I implemented the CRC algorithm using the C programming language, which involved processes such as polynomial generation, remainder calculation, and data verification on the receiver side. This project allowed me to gain a deeper understanding of error detection mechanisms in data communication and strengthen my skills in system programming and algorithmic logic.
- **Company Website Design and Development** Jun 2025-July 2025  
In this project, I independently designed and developed a company website that serves as an official platform to showcase the company's profile, services, and contact information. I was responsible for UI/UX design and frontend development using HTML, CSS, and JavaScript. This project improved my skills in responsive design and modern web development

## SKILLS

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- **Soft Skills:** Adaptability, Effective Communication, Team Collaboration, Individual work, problem solving, self- motivated, Leadership, project manager, creativity and Innovation, time management
- **Hard Skills:** DevOps (CI/CD, Docker, Kubernetes), Cloud Computing (AWS, Azure, Google Cloud), Embedded Systems, Networking (Network Configuration and Communication Protocols), Web Development (HTML, CSS, JavaScript, PHP, MySQL), Automation Testing (Selenium, Robot Framework), Version Control (Git & GitHub), and Programming Languages (Java, Python, C), Quality Assurance (Manual Testing, Test Case Design, Automation Testing, API Testing), Front-End Development (HTML, CSS, JavaScript, React).
- **UML:** Use Case Diagram, Business Process Model and Notation (BPMN), Class Diagram, Sequence Diagram, Conceptual Data Model (CDM), Physical Data Model (PDM), and Entity Relationship Diagram (ERD).

## CERTIFICATION

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- Latihacks Certificate - Kenal Profesi Cyber Security Analyst
- RevoU Certificate – Intro To Software Engineering
- Dicoding Indonesia Certificate – Belajar Dasar-Dasar DevOps
- Palo Alto Network Certificate – Cloud Security Fundamentals
- Huawei Certificate – Computing Track
- Digital Talent Scholarship Certificate – Pentingnya menjaga keamanan Digital: Perlindungan Diri di Dunia Maya Micro Skill
- Cyber Academy certificate – Introducing to Information Security Course
- Cisco Networking Academy – Introduction to Cyberscurity