# ROMAITO AGUSTINA SILAEN

082297192696 | romaitoagustina2808@gmail.com | www.linkedin.com/in/romaito-silaen-09a10331a
Jalan Lumban Rau

I am a final-year Computer Technology student with a strong interest in Internet of Things (IoT), Cloud Computing, Networking, and Web Development. I have hands-on experience in designing IoT-based systems, building network infrastructures, and developing responsive web applications. I am a collaborative team player with strong analytical and problem-solving skills, focused on delivering efficient and innovative technological solutions. I am eager to continue learning and contributing to impactful technology projects.

## Education Level

**Institut Teknologi Del** - **Institut Teknologi Del - Jl. Sisingamangaraja Sitoluama-Laguboti. Toba Samosir 22381. Sumatera Utara-Indonesia**                    Aug 2023 - Sep 2026 (Expected)

*Diploma in Computer Technology, 3.00/4.00*

## Organisational Experience

**Department of Order and Discipline (BEM)**                    Aug 2024 - Present

*Member*

Supervision of Student Discipline: Ensure students follow campus rules and norms and Manage and monitor student attendance in academic and non-academic activities.
Enforcement of Campus Rules: Explain and enforce campus policies and regulations to students and Coordinate disciplinary actions and sanctions for students who violate the rules.
Providing Directives and Socialization: Provide discipline-related directives to new students and Organize socialization programs to ensure understanding of campus rules.

**Computer Technology Student Association (HIMATEK)**                    Oct 2023 - Present

*Member*

Active member of the Computer Technology Student Association, participating in organizational activities and events that support academic and non-academic development among Computer Technology students. Collaborated with fellow members to promote teamwork, communication, and student engagement within the department.

## Skills, Achievements & Other Experience

- **Projects** (2024): Development of the Puskesmas Janji Matogu Website, This project involved creating an informative website for Puskesmas Janji Matogu to provide public access to health-related information, including services, activities, procedures, and articles. The website was developed using PHP and MySQL, featuring a backend system that allows administrators to manage and update content through a simple control panel. It was designed to be easily accessible without login requirements, helping the community obtain information more efficiently.
- **Projects** (2024): Development of an Automatic Smart Home System for Classroom, This project focused on designing an IoT-based automation system using Arduino Uno, DHT11, LDR, Ultrasonic Sensor, and Relay Module. The system automatically controls lights and fans based on room temperature, light intensity, and human presence. The purpose of this project was to enhance energy efficiency and comfort within classrooms by minimizing the need for manual control through smart automation.
- **Projects** (2025): Development of a Waste Cleaning System Prototype at the Shore of Lake Toba , This project aimed to create an IoT-based waste cleaning system using ESP8266, DC Motor, and Ultrasonic Sensor, integrated with a web-based control interface. The system utilized a small boat equipped with sensors for navigation and a waste collection net to clean the shoreline area of Lake Toba. The ESP8266 microcontroller served as the main control unit, enabling users to operate the boat via a local Wi-Fi connection. This innovation supports environmental conservation efforts by improving cleaning efficiency and reducing human labor.
- **Soft Skills**: Problem Solving, Teamwork, Time Management, Adaptability to Technology
- **Hard Skills**: Python, C, PHP, HTML, JavaScript, Website Development (Front End & Back End), PHP & MySQL , Computer Networking, Network Troubleshooting, Network Configuration, IoT & Embedded Systems, Solidworks