

# Maria Laura Nasution

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<https://github.com/MariaNasution>

An enthusiastic and dedicated Computer Science student with strong communication skills, a passion for learning new things, and the ability to quickly grasp new concepts. I am always eager to expand my knowledge and skills. Possessing strong critical thinking abilities and a talent for in-depth analysis, I am capable of working both independently and collaboratively. Highly interested in UI/UX design and web development, with a desire to create intuitive and visually appealing user experiences, as well as build functional and innovative web applications.

## Education Level

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|--|--------------------------------|
| <b>Del Institute of Technology - Toba, Indonesia</b> | Aug 2022 - Sep 2026 (Expected) |
| Third year undergraduate student majoring            |                                |
| <i>Informatics</i>                                   |                                |

## Experience

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|   |                    |
|---|--------------------|
| <b>Del Institute of Technology - Sitoluama, Indonesia</b>   | Jan 2024 - Present |
| <i>Student Leadership</i>   |                    |
| <ul style="list-style-type: none"><li>• Leading and guiding dormitory rooms and residents, including providing direction on dormitory rules and regulations.</li><li>• Providing guidance and motivation to achieve academic goals and personal development.</li><li>• Explaining and ensuring the enforcement of dormitory rules to maintain a conducive and harmonious living environment.</li><li>• Providing solutions and motivational support to overcome various challenges.</li></ul> |                    |

|   |                      |
|---|----------------------|
| <b>Del Institute of Technology - Sitoluama, Indonesia</b>   | Sept 2023 – Des 2023 |
| <i>Teaching Assistant Calculus I</i>  |                      |
| <ul style="list-style-type: none"><li>• Assisting around 55 students with questions or issues related to Calculus course materials</li><li>• Compiling supplementary learning materials, such as practice questions, presentations, or additional reading materials, to help students better understand Calculus concepts</li></ul> |                      |

|   |               |
|---|---------------|
| <b>Del Institute of Technology - Sitoluama, Indonesia</b>   | November 2023 |
| <i>Master of Ceremony at Events "DIPTEK Goes to School"</i>   |               |
| Master of Ceremony at "DIPTEK Goes to School" event for SMPN 1 Pintupohan Meranti with around 70+ related to technological developments and encouraged them to become young Indonesian digital talents in the future. |               |

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|---|---------------|
| <b>Del Institute of Technology - Sitoluama, Indonesia</b>   | February 2024 |
| <i>Speaker at " DIPTEK PRE PKM " Events</i>   |               |
| Speaker at Pre PKM (Student Creativity Program) event with around 150+ student participants from Del Institute of Technology. |               |

## Organizational Experience

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**Department of Science and Technology – Institut Teknologi Del**

Juli 2023 – Present

*Member of Event Division*

- Managing the overall execution of events, ensuring all aspects are executed smoothly and efficiently.
- Serving as the master of ceremonies (MC), presenting material to the audience and guiding the event program.
- Coordinating event logistics, including scheduling, setup, and ensuring all technical and operational details are addressed.
- Ensuring the smooth flow of the event, handling any issues that arise, and making adjustments as needed.
- Engaging with participants to create a dynamic and informative experience, fostering interaction and maintaining interest throughout the event.
- Collaborating with team members and stakeholders to ensure all event objectives and goals are met.
- Providing pre-event and post-event support, including preparing materials, managing follow-ups, and evaluating event success.

**Department of Science and Technology – Institut Teknologi Del**

September 2024 – Present

*Secretary*

- Managing the overall administration of events, ensuring that all aspects are well-documented and organized efficiently.
- Preparing official correspondence, reports, and supporting documents for event-related activities and internal and external communications.
- Coordinating event schedules, ensuring smooth execution through timely and systematic organization
- Documenting the event proceedings, including taking meeting minutes, preparing evaluation reports, and archiving event records.
- Ensuring the smooth execution of events by monitoring technical and operational needs, and providing solutions to any issues that arise.

**Himpunan Mahasiswa Informatika – Institut Teknologi Del**

Augst 2022 - Present

*Member*

- Participating in a range of events including seminars, workshops, and other social activities.
- Attending seminars to gain knowledge and insights on relevant topics.
- Participating in workshops to develop new skills and enhance existing abilities.
- Engaging in social activities to build relationships, network, and contribute to community initiatives.
- Contributing to discussions and activities during events to share ideas and collaborate with others.

## Project experience

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**CALCULATOR (C)**

June 2023

**Basic Programming Project** - <https://github.com/MariaNasution/C-Calculator>

This calculator is built using the C programming language. It provides basic arithmetic operations such as addition, subtraction, multiplication, and division. Additionally, the calculator can perform exponentiation, calculate trigonometric functions like sine, cosine, and tangent, as well as compute natural and base 10 logarithms. It also features modulo operation, temperature and distance conversion, discount calculation, and probability calculation.

**BOOKHIVE (Java GUI)**

Nov 2023 – Des 2023

**Object Oriented Programming Project** - <https://github.com/MariaNasution/QUICLIB>

*Fullstack Developer*

As a full-stack developer for BOOKHIVE, I conducted research on the app's functionality, designed the user interface, and developed the application using NetBeans. The app is built to help users organize and manage their reading lists, serving as a personal library. It connects to a database system via SQLyog to store and retrieve user data, making it easier for users to track the books they are currently reading or have archived.

**Evaluating Website Usability**

February 2024

**Human-Computer Interaction**

<https://www.figma.com/proto/iwc0UcCI65Ai0U8HPqVoB6/Untitled?node-id=103-2>

Collaborated with fellow university colleagues to evaluate a website based on 10 heuristic usability principles, identifying problems, providing descriptions, severity ratings, and offering solution suggestions using Figma

#### **Web-Portofolio <https://github.com/MariaNasution/Basic-Web-Programming>**

July 2024

##### **Website Developer**

This class thoroughly discusses the basic of HTML anda CSS as the three foundations of website creation.

- Introduction to HTML: Basic structure of HTML documents and tools for building website pages.
- Deepening HTML: Application of HTML in building web page structures, including various HTML elements and techniques for organizing content.
- Introduction to CSS: Tools for enhancing the appearance of website pages, including CSS rules and code writing.
- Deepening CSS: Advanced CSS techniques for styling fonts, colors, shadows, positioning, and layout.
- Responsive Layout with Flexbox: Layout techniques using Flexbox for creating responsive designs.
- Conclusion: Implementation of learned techniques in creating a simple website project.

#### **Evaluating Website Usability**

February 2024

<https://www.figma.com/proto/iwc0UcCI65Ai0U8HPqVoB6/Untitled?node-id=103-2>

Collaborated with fellow university colleagues to evaluate a website based on 10 heuristic usability principles, identifying problems, providing descriptions, severity ratings, and offering solution suggestions using Figma.

#### **Student Information System (SIS)**

October-Desember 2024

[https://www.linkedin.com/posts/maria-laura-nasution-a46bba313\\_student-information-system-activity-7285127321617887236-3Vlm?utm\\_source=social\\_share\\_sheet&utm\\_medium=member\\_desktop\\_web](https://www.linkedin.com/posts/maria-laura-nasution-a46bba313_student-information-system-activity-7285127321617887236-3Vlm?utm_source=social_share_sheet&utm_medium=member_desktop_web)

In my role as an Analyst, I am responsible for drafting the SRS (Software Requirements Specification) for this project. The SRS includes comprehensive documentation that outlines both the functional and non-functional requirements of the system. I conduct in-depth analysis to understand and gather the needs of stakeholders to ensure that the system being developed aligns with their expectations. Additionally, I ensure that each requirement specified in the SRS can be effectively implemented by the development team and meets the primary goal of the project, which is to enhance communication and transparency between parents and the university.

#### **Collaborative Research with Faculty: Facial Detection Using Convolutional Neural Networks**

##### **(CNN)**

October-Desember 2024

As part of a collaborative research project with faculty members, we developed a facial detection system leveraging Convolutional Neural Networks (CNN), a cutting-edge deep learning method. The research aimed to enhance the accuracy and efficiency of facial detection for applications in security systems, surveillance, and user authentication

## **KEY COMPETENCIES**

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C  
Java  
SQL  
Postman  
HTML

PHP  
Java Script  
Figma  
Coda  
Public Speaking

Team Leardership