

# ALYA TRISWANI

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I am an Information Systems student with a strong interest in technology, particularly in software engineer, AI enthusiast, database management, and system analyst. I have hands-on experience with various software development tools and technologies, including Visual Studio Code, C, Java, HTML, CSS, PHP/ Laravel, Python, JavaScript, SQL Server, Figma, Bizagi, Git, and GitHub. Experienced in tutoring, coding tasks, and project collaboration. I am highly motivated to keep learning, growing, and collaborating while sharing ideas to achieve common goals.

## Educational

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### Del Institute of Technology

*Bachelor of Information System, 3.46/4.00*

Aug 2023 - Sep 2027 (Expected)

- Awarded 2nd Place in the Outstanding Student Selection at IT Del (2025)
- Finalist – National Data Festival (PeDaS2025), APTIKOM (2025)
- 8th Position in the Screening (Stage 1) of Fert Innovation Competition, AI-Driven Adri Supply Chain Category (Des, 2025)

## Work Experiences

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### Del Institute of Technology - Toba, Indonesia

*Teaching Assistant for Algorithms and Data Structures*

Sep 2025 - Present

- Supported and guided over 50 students in Algorithm and Data Structures labs, covering essential topics such as pointers, structures, linked lists, trees, graphs, and ADTs.
- Led tutorial sessions, answered student questions, and provided hands-on assistance during coding exercises and practical assignments.
- Evaluated assignments and exams and contributed to developing and reviewing practice materials and quizzes to ensure clarity and alignment with course objectives.

### Del Institute of Technology - Toba, Indonesia

*Teaching Assistant for Discrete Mathematics.*

Sep 2024 - Present

- Supported 50+ students in weekly Discrete Mathematics sessions, covering core topics including logic, sets, functions and relations, combinatorics, and basic graph theory.
- Led weekly tutorials, offered additional explanations, and guided students through exercises, homework, and problem-solving tasks to reinforce understanding and meet course requirements.
- Graded assignments and quizzes while contributing to course preparation by reviewing practice questions and helping create clearer examples to support student learning.

### DiTenun - Toba, Indonesia

*Application Instructor*

Sep 2025

- Provided hands-on training for 20+ traditional weavers on how to use the DiTenun application, including its AI-based motif and color generation features.
- Guided participants through step-by-step practice sessions and offered technical support during the training.
- Collected user feedback to help improve the application's interface and overall user experience

## Project Experience

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### Artificial Intelligent Practicum

AI Developer | Technologies: Python

Aug 2025 – Present

- Successfully applied weekly practical concepts through real-world case studies and actively participated in Kaggle competitions to advance proficiency in *Machine Learning* and optimization algorithms.
- Collaborated on weekly group theoretical assignments, demonstrating strong teamwork and achieving deep conceptual mastery of core AI and logical reasoning principles.

**Wedding Preparation Website**

[wedding-preparation.tech](https://wedding-preparation.tech) | <https://github.com/FrankSiahaan/Wedding-Preparation>

Aug 2025 – Present

Web Developer | Technologies: Laravel, Filament PHP, Tailwind CSS

<ul style="list-style-type: none"> <li>Developed a modern and responsive user interface using Tailwind CSS and Blade to support website view components.</li> <li>Built an admin panel using Filament PHP to simplify content and system management.</li> <li>Implemented RESTful APIs to enable efficient and structured communication between client and server.</li> <li>Developed and deployed a dynamic web application using Laravel and MySQL to support backend operations and optimize database management.</li> <li>Designed and implemented a dynamic web application (Laravel/MySQL) where I structured transactional data (e.g., Midtrans payments) to enable future analysis on user behavior and service utilization metrics.</li> </ul>	Aug 2025 – Present
<b>Advanced Database</b> Database Developer   Technologies : Microsoft SQL Server, MySQL, MongoDB, Cassandra	Aug 2025 – Present
<ul style="list-style-type: none"> <li>Optimized database performance using SQL Server and evaluated non-relational database suitability (MongoDB) for handling large, complex datasets, demonstrating expertise in data architecture and querying efficiency for analytical workloads.</li> </ul>	Jan 2025 – May 2025
<b>Object-Oriented Programming</b> <a href="https://github.com/AlyaTriswani14/Pemrograman-Berbasis-Objek_AlyaTriswani">https://github.com/AlyaTriswani14/Pemrograman-Berbasis-Objek_AlyaTriswani</a> Programmer   Technologies: Java, Maven, Visual Studio Code, Git, Github	Jan 2025 – May 2025
<ul style="list-style-type: none"> <li>Creating programming assignments using the Java language and a pairing system, with case studies that continue progressively each week.</li> </ul>	Jan 2024 – May 2024
<b>Perancangan sistem database dalam pengelolaan Rencana Pembelajaran Semester (RPS)</b> Database Developer   Technologies : Microsoft SQL Server, SQL Server Management Studio (SSMS), PostgreSQL, Draw.io	Jan 2024 – May 2024
<ul style="list-style-type: none"> <li>Conducted system analysis and data modeling (ERD, Normalization) to design a robust database architecture for the RPS system, ensuring data integrity and structure for future reporting and analytical needs.</li> <li>Produced complete database design artifacts, including ERD, CDM, PDM, physical tables, and normalization, and implemented the final design in the database system.</li> </ul>	Jan 2024 – May 2024
<b>Procedural Programming</b> Programmer   Technologies: C, Visual Studio Code, Git, Github	Jan 2024 – May 2024
<ul style="list-style-type: none"> <li>Developed programs using the C programming language following procedural programming principles.</li> <li>Implemented and tested code in Visual Studio Code while applying best practices in debugging and code organization.</li> <li>Utilized Git and GitHub for version control, project management, and collaborative coding workflows.</li> </ul>	Aug 2023 – Des 2023
<b>Visual Programming</b> <a href="https://github.com/AlyaTriswani14/Pemrograman-Visual_AlyaTriswani">https://github.com/AlyaTriswani14/Pemrograman-Visual_AlyaTriswani</a> Programmer   Technologies: Flowgorithm, Java, Git, GitHub	Aug 2023 – Des 2023
<ul style="list-style-type: none"> <li>Developed visual programming flowcharts using Flowgorithm.</li> <li>Applied continuous, interconnected case-study models completed through paired programming.</li> </ul>	Aug 2023 – Des 2023

## Organizational Experience

- Department of Religious and Social Affairs**  
(Sep 2024 – Present)  
*Team Member, Visual Media*
- Del Data Science Club (DDSC)**  
( Oct 2023 – Present)  
*Coordinator of Information and Education Division*
- General Election Comission (KPU)**  
( Nov 2025 – Present)  
*Member of Event Division*
- Inauguration, Dies Natalis & Graduation Events 2025**  
(Sep 2025)  
*Member of Protocol and Tourguide (Escord)*
- BEM and MPM Socialization Program**  
(Aug 2025)  
*Master of Ceremonies*
- TryOut IT Del Fest 2025**  
(Aug 2025)  
*Olympiad Supervisor*

- **Student Association of Information Systems (HIMSI)**  
( Mar 2024 – Present)  
*Member*
- **Student Leadership Program (Kakak/Abang Asuh)**  
(Aug 2024- Jun 2025)  
*Student Mentor*
- **BEM President and Vice President Final Debate**  
(Nov 2025)  
*Master of Ceremonies*
- **Inauguration, Dies Natalis & Graduation Events 2024**  
(Sep 2024)  
*Member of Consumption Division*
- **Matriculation**  
(Aug 2024)  
*Assistant*
- **Radio Digital Club (RDC) x Del FM (92.4 FM)**  
(Sep 2023 - Jun 2025)  
*Broadcaster*

## Certifications

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- Huawei : HCIA-AI V4.0 Course (2025)
- Huawei : Artificial Intelligence Technology and Applications Huawei ICT Academy (2025)
- Dicoding : Belajar Dasar Visualiasi Data (2025)
- Udemy : C Programming Bootcamp – The Complete C language Course (2024)
- Dicoding : Memulai Pemrograman Dengan C (2024)

## Language

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- Bahasa Indonesia (Native Language)
- English (Intermediate)

## Skills

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- **Technical Skills**
  - **Database Management:** Microsoft SQL Server, MySQL, PostgreSQL, MongoDB, Cassandra
  - **Programming Languages:** C, Java, PHP, Python, JavaScript, SQL
  - **Web Development:** Laravel, PHP, HTML, CSS, Tailwind CSS
  - **Tools & Technologies:** Visual Studio Code, Git, GitHub, Maven, SSMS, Flowgorithm, Kaggle, Anaconda, Postman
  - **Design & Modeling:** Figma, Bizagi, Draw.io
- **Soft Skills :** Problem-solving, creative design, good communication, critical thinking, teaching & mentoring, team collaboration
- **Other Relevant Skills :** Object-Oriented Programming (OOP), data structures & algorithms, system analysis, data visualization