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

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

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

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://github.com/FrankSiahaan/Wedding-Preparation

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

Aug 2025 – Present

- Developed a modern and responsive user interface using Tailwind CSS and Blade to support website view components.
- Built an admin panel using Filament PHP to simplify content and system management.
- Implemented RESTful APIs to enable efficient and structured communication between client and server.
- Developed and deployed a dynamic web application using Laravel and MySQL to support backend operations and optimize database management.
- 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.

Advanced Database

Database Developer | Technologies : Microsoft SQL Server, MySQL, MongoDB, Cassandra

Aug 2025 – Present

- 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.

Object-Oriented Programming

https://github.com/AlyaTriswani14/Pemrograman-Berbasis Objek_AlyaTriswani

Programmer | Technologies: Java, Maven, Visual Studio Code, Git, Github

Jan 2025 – May 2025

- Creating programming assignments using the Java language and a pairing system, with case studies that continue progressively each week.

Perancangan sistem database dalam pengelolaan Rencana Pembelajaran Semester (RPS)

Database Developer | Technologies : Microsoft SQL Server, SQL Server Management Studio (SSMS), PostreSQL, Draw.io

Jan 2024 – May 2024

- 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.
- Produced complete database design artifacts, including ERD, CDM, PDM, physical tables, and normalization, and implemented the final design in the database system.

Procedural Programming

Programmer | Technologies: C, Visual Studio Code, Git, Github

Jan 2024 – May 2024

- Developed programs using the C programming language following procedural programming principles.
- Implemented and tested code in Visual Studio Code while applying best practices in debugging and code organization.
- Utilized Git and GitHub for version control, project management, and collaborative coding workflows.

Visual Programming

https://github.com/AlyaTriswani14/Pemrograman-Visual_AlyaTriswani

Programmer | Technologies: Flowgorithm, Java, Git, GitHub

Aug 2023 – Des 2023

- Developed visual programming flowcharts using Flowgorithm.
- Applied continuous, interconnected case-study models completed through paired programming.

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

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

Language

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

Skills

- **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 thingking, teaching & mentoring team collaboration
- **Other Relevant Skills :** Object-Oriented Programming (OOP), data structures & algorithms, system analysis, data visualization