

# J O P E L S I M A R M A T A

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## SUMMARY

An Information Systems undergraduate with strong expertise in web development, specializing in Laravel and full-stack application development. Experienced in building end-to-end systems, including authentication, API integration, database design, and secure payment workflows using Midtrans with an escrow mechanism. Actively involved in academic roles as a Student Teaching Assistant in Visual Programming and Procedural Programming, contributing to mentoring, debugging, and practical lab guidance. Developed multiple projects such as a campus management system, academic simulator, and a Laravel-based agricultural marketplace with forum and online transaction processing. Skilled in PHP, Java, Python, C#, C, SQL Server, MySQL, MongoDB, Flutter, Android Studio, OpenCV, and Jupyter Notebook. Active member of the Del Cyber Security Club, HMSI, and the BEM Multimedia Division, with achievements including representing the campus at the Huawei ICT Competition National Level and participating in national programming competitions and professional workshops.

## EDUCATION

**Undergraduate Information System**  
Del Institute of Technology  
2023 - Present

GPA (current): 3.78/4.00

## ACADEMIC EXPERIENCE

**Student Teaching Assistant Visual Programming**  
Del Institute of Technology

August 2024 – December 2024

Responsibilities: I served as a mentor in helping students understand fundamental concepts and techniques in visual programming. I provided hands-on guidance in completing assignments, demonstrated the use of visual development tools, and offered constructive feedback on their work. In addition, I assisted in organizing class sessions and group discussions to enhance students' understanding of visual-based programming.

**Student Teaching Assistant Procedural Programming**  
Del Institute of Technology

January 2025 – Present

Responsibilities: In my role as a Teaching Assistant for the Procedural Programming course, I assisted students in understanding the fundamentals of procedural programming using the C language. My responsibilities included explaining core concepts such as control flow structures, memory management, and debugging. I also facilitated practical sessions and provided direct support to students in completing their programming assignments.

**Assistant of Matriculation**  
Del Institute of Technology

August 2024 – August 2024

Responsibilities: As a Matriculation Assistant, I played a role in helping new students adapt to the academic and technical environment at the Del Institute of Technology. I provided guidance on academic procedures, the use of the academic information system, and explained the facilities available on campus. I also served as a liaison between new students and the teaching staff to ensure a smooth learning process at the beginning of the semester.

**Student Dormitory Management System Project**  
Del Institute of Technology

August 2024 – December 2024

Responsibilities: As part of the development team for the Dormitory Management System project, I was involved in designing and implementing a web-based application to manage dormitory resident data. My responsibilities included designing the database structure, writing backend code using PHP, and performing

functionality testing to ensure the application operated efficiently in managing resident data, facilities, and activity schedules.

### **Academic Simulator Project**

Del Institute of Technology

January 2025 – May 2025

Responsibilities: I developed a Java-based desktop application that simulates an academic system, focusing on student data and grade management. The application uses MySQL as its database to store and retrieve academic information in real time. I was responsible for designing and implementing data-processing algorithms, building core system logic such as student management, course management, as well as grade and GPA calculations. In addition, I developed the desktop user interface and ensured stable integration between the application and the database through thorough testing and debugging.

### **CRUD-Campus Web Application Project**

Del Institute of Technology

March 2025 – Present

Responsibilities: In this project, I was responsible for developing a web application that enables users to perform CRUD (Create, Read, Update, Delete) operations on campus-related data, such as student, lecturer, and course information. I wrote the frontend code using HTML, CSS, and JavaScript, and connected the application to a MySQL database to efficiently store and manage the data. This project provided me with practical experience in building dynamically functioning web applications.

### **Agricultural Marketplace & Forum Web Application (Laravel)**

Del Institute of Technology

August 2025 – Present

Responsibilities: I developed a web-based agricultural marketplace and forum application using Laravel, enabling farmers to sell products, buyers to place orders, and users to engage in discussions through the forum feature. In this project, I designed the database structure and implemented features such as authentication, product management, and the forum posting system. I also built the online transaction process using Midtrans by applying an escrow system in which payment funds are temporarily held until the transaction is verified and both parties complete the buying and selling process. This project strengthened my skills in Laravel backend development, API integration, and implementing secure and structured payment systems.

### **Simple PokéMon Mobile Application (Flutter)**

Independent Project

August 2025 – October 2025

Responsibilities: I developed a simple PokéMon application using Flutter that displays a list of PokéMon, detailed pages, and an optional loading state to enhance the user experience. In addition, I implemented various logic interactions using a Floating Action Button (FAB) for actions such as navigation or state changes within the app. This project strengthened my understanding of Flutter's widget structure, basic state management, screen navigation, and core principles of cross-platform mobile application development.

## **SKILLS**

- Programming Languages: Python, Java, PHP, C#, C (familiar through Visual Studio)
- Web and Application Development:
  - HTML, CSS, JavaScript, MySQL
  - Laravel – backend development, API, authentication
  - Flutter – cross-platform mobile development
  - Android Studio – mobile app development workflow
- Data Structures & Algorithms:
  - Strong understanding and application in academic projects
- Computer Vision & Data Processing:
  - Experience using Python libraries such as OpenCV for image processing tasks
  - Jupyter Notebook – data analysis, visualization, and rapid prototyping
- Database Management:
  - MySQL – designing and handling relational databases
  - SQL Server / SSMS – database management and system operations
  - MongoDB – NoSQL database modeling and implementation

- Software Development Paradigms:
  - Strong understanding of Data Structures & Algorithms
  - Procedural Programming (C)
  - Object-Oriented Programming (Java, Python, C#)

## ORGANIZATIONAL EXPERIENCE

### Member

Del Cyber Security Club

August 2023 – Present

Responsibilities: As a member of the Del Cyber Security Club, I participated in various training sessions related to network security and data encryption. We learned about security protocols, ethical hacking techniques, and methods to protect data and information systems from potential threats.

### Member

Himpunan Mahasiswa Sistem Informasi Institut Teknologi Del

August 2019 – Present

Responsibilities: In HMSI, I participated in academic and social activities that supported the professional development of its members. I also assisted in organizing seminars and workshops aimed at enhancing students' understanding of current technologies.

### Member

Komisi Pemilihan Umum BEM – Divisi Multimedia dan Dokumentasi

September 2025 – Present

Responsibilities: As a member of the Multimedia and Documentation Division, I was responsible for creating and managing visual content for the BEM Election activities. I was involved in documenting the entire series of events, producing publication materials, managing social media, and ensuring that information was delivered clearly and engagingly to students. In addition, I collaborated with other divisions to ensure that each stage of the election was well-documented and accountable.

## TRAINING AND ACHIEVEMENT

- Campus Representative – Huawei ICT Competition National Level 2025  
Selected as a representative of the Del Institute of Technology to participate in the Huawei ICT Competition at the national level in the Cloud category, after successfully passing the official selection and examination conducted by Huawei.
- Workshop – Pembuatan Platform Digital dengan Domain .id  
Media Cloud Indonesia  
Skills: Web Development, Domain Management (.id), System Deployment
- Azure AI Fundamentals – Microsoft  
Credential ID: wnNh4-48DB  
Skills: Microsoft Azure AI, Machine Learning Fundamentals, AI Ethics, Data Science Basics
- Peserta - Schematics National Programming Contest Senior 2024