



Agita Rahel Panjaitan

Front End Developer | Data Analysis

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SUMMARY

I am a passionate and motivated Computer Technology student (D3) at Institut Teknologi Del, currently in my 5th semester. I have strong skills in frontend development and system analysis, with experience in designing, building, and documenting interactive web-based applications.

Throughout my studies, I have been involved in several academic and personal projects that focus on UI/UX design, API integration, and system architecture. I enjoy turning complex ideas into simple and user-friendly interfaces, as well as analyzing system workflows to improve performance and usability.

I am eager to keep developing my technical and analytical skills, collaborate in dynamic teams, and contribute to software development, product design, and system integration projects.

EXPERIENCE

Load Balancing Strategy for the Rules Controller in Software Defined Network (SDN)

01/2025 - 05/2025

Del Institute of Technology ↗

- Built an SDN system with multiple controllers using the Raft algorithm so the network can choose a new leader automatically if one fails.
- Created load balancing and logging on the controller, so every request from the client is recorded and shared to other controllers or servers.

Ansible-based Infrastructure Automation Playbook

01/2025 - 05/2025

Del Institute of Technology ↗

- Developed and executed Ansible Playbooks to automate software installation and system configuration from a local laptop (control node) to multiple remote servers.
- Implemented infrastructure provisioning, package installation, service configuration, and system updates through automated workflows without manual intervention.
- Designed and implemented automation workflows using Ansible to install and configure required components for services, including Load Balancer, SMTP, Squid Proxy Server, Apache Web Server, and DNS (BIND), across multiple systems

Final Project 2 (Chatbot CyberFox Platform Edukasi Keamanan Internet untuk Anak - Anak)

01/2025 - 05/2025

Del Institute of Technology ↗

Contributed to the development of CyberFox Chatbot, an interactive educational platform designed to improve cybersecurity literacy among children and adolescents. This project implemented a Retrieval-Augmented Generation (RAG) architecture by integrating a modern technology stack, including: React Vite and Tailwind CSS for the client-side interface; Node.js for the server-side runtime; LangChain for RAG pipeline orchestration and LLM interactions; OpenAI GPT-4 as the inference layer model; and Pinecone and PostgreSQL for vector database and relational data management. Participated in the design of the system's wireframe and UI/UX prototype using Figma.

Final Project 1 (website_E-COMMERCE FOR UMKM TOBA)

01/2024 - 07/2024

Del Institute of Technology ↗

Developed a responsive full-stack web application using WordPress and MySQL to support small and medium-sized enterprises SMEs(UMKM) in Toba Regency.

The website features a modern, user-friendly interface that helps local business owners showcase and manage their businesses digitally.

A simple C program that reads binary input data (0 and 1) from a file, processes it using basic logic operations (AND, OR, NOT), and writes the results to an output file in a table format. This project demonstrates the application of digital logic concepts and file handling in programming.

EDUCATION

Computer Engineering

Del Institute of Technology - Diploma 3

Currently in the 5th semester with a GPA of 3.00/4.00

CERTIFICATES

Web Design ↗	11/2025 - 11/2025
Website Development: Front End ↗	07/2025 - 07/2025
Cybershield 2025 ↗	07/2025 - 07/2025

SKILLS

wordpress	Figma
JSON	JavaScript
Python	CSS
Excel / Google Sheets	HTML
SQL	C/ C++
Git & GitHub	Virtual Machine

LANGUAGES

Indonesia	English
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