OLOAN NAINGGOLAN

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SUMMARY

A highly motivated Information Systems student with an integrative approach to understanding and solving technological and digital challenges. Focused on system analysis, system design, and the development of information systems aligned with organizational needs and objectives. Possesses strong analytical skills in system development, complex data analysis, and object-oriented programming, strengthened through various academic projects. Experienced in viewing problems holistically and designing user-oriented solutions. Committed to contributing to the development of digital solutions that are creative, functional, and impactful.

EDUCATION

Institut Teknologi Del – Sitoluama, Indonesia
Undergraduate of Information Systems | 2023 -Present

SCHOLARSHIP

PANDI Scholarship 2025
Schoolarship | Juli 2025 - Present
- Awarded for strong academic performance and active contributions to digital literacy and internet governance initiatives in Indonesia.
- Selected through a competitive evaluation recognizing excellence in information systems, digital innovation, and community impact.

ACADEMIC PROJECTS

Academic Curriculum System Database Design
System Analyst | Institut Teknologi Del | October - December 2024
- Developed comprehensive ERD designs (CDM & PDM) for the campus curriculum workflow, mapping all entities and relationships using clear and structured diagrams in Draw.io.
- Collaborated with the team to complete a large-scale project by identifying stakeholders, defining system requirements, and ensuring the accuracy of every interconnected data component.

Student Permit System – Process Redesign
Business Process Analyst | Institut Teknologi Del | October - December 2024
- Conducted stakeholder-based requirement elicitation and modeled workflows using BPMN for optimization.
- Produced structured documentation supporting process automation and redesign implementation.

Design Toba Dreams Journey
Business Analyst & System Analyst | Institut Teknologi Del | Oktober – Desember 2024
- Gathered and analyzed requirements to design modern business workflows, create mockups, and build the Business Model Canvas (BMC).
  • Collaborated with the team to Developed the SyRS document and produced interactive UI designs as the initial model for system development.

Bakery Shop Online System Design
Project Analyst & UI Designer | Institut Teknologi Del | February - May 2025
- Conducted requirement elicitation and system analysis to design ordering, transaction, and tracking features supported by DFD/ERD models.
- Designed user-centered UI/UX and Figma prototypes to streamline bakery workflows and improve usability.

Rumah Kreatif Toba Website Redesign
UI/UX Designer | Institut Teknologi Del | March - May 2025
- Identified key usability issues using heuristic evaluation, SUS, and competitive analysis.
- Redesigned user flows and created Figma prototypes to enhance platform usability and competitiveness.

Academic Record Management – Java OOP
Software Developer (Pair Programming) | Institut Teknologi Del | May 2025
- Developed an automated transcript generator using OOP and data processing to ensure accurate and structured outputs.
- Improved system reliability through incremental development and collaborative pair programming.

Pupuk dan Bibit Subsidi Pemerintah – Project
Project Manager | Institut Teknoologi Del | September 2025 – Present
- Led the team in gathering requirements, making key project decisions, and designing system workflows using Figma and Draw.io to map stakeholder needs.

- Coordinated the development of a Laravel–SQL system built with MVC and API integration, ensuring alignment with customer requirements and project objectives.

WORK & BOOTHCAMP EXPERIENCE

Google Students Ambassador
- *Brand Ambassador | Sept 2024 – Present*
  Assisted students in understanding and using Gemini AI and other AI tools through clear technical guidance and hands-on support.
- Helped troubleshoot AI-related issues and ensured students could apply AI technologies effectively in academic tasks.

Laravel Bootcamp (SanBarcode)
Course Learning | July 2025
- Completed an intensive Laravel bootcamp focused on routing, MVC architecture, database management, and API integration.
- Gained practical, project-based experience in building web applications and received strong evaluations for technical performance and improvement.

Samsung Innovation
Course & Competition Innovation | September 2024
- Completed the Samsung Innovation Campus training focused on Coding, Artificial Intelligence (AI), and Internet of Things (IoT) through blended learning and project-based modules.
- Collaborated in developing an innovative tech solution for social impact, mentored by industry professionals and evaluated through a competitive final presentation.

ORGANIZATIONAL EXPERIENCE

Student Deliberative Assembly (MPM)
Youth & Student Affairs Division | Institut Teknologi Del | Nov 2024 – Present
- Oversaw BEM performance, conducted inauguration processes, and contributed to institutional-level decision-making.
- Revised institutional regulations and supervised the Election Commission (KPU) to ensure transparent and fair election processes.

Del Cyber Security
Team Member | Institut Teknologi Del | Aug 2023 – Aug 2024
- Participated in cybersecurity activities and modules, collaborating on technical problem-solving tasks.
- Engaged in self-directed learning through mentor-provided online materials to deepen cybersecurity understanding.

Del Badminton Club
Person in Charge (PIC) | Institut Teknologi Del | Aug 2023 – Present
- Managed club activities, coordinated training schedules, and ensured proper facility and operational management.
- Supported member development through routine practice guidance and recruitment/selection for new club entrants.

Skills & Competencies

- **Languages:**
  Indonesian (Fluent), English (Intermediate)
- **Programming & Technical Skills:**
  Languages & Frameworks: C, Java, PHP (Laravel), JavaScript, HTML, CSS
  Database: SQL / MySQL, phpMyAdmin
  Core Competencies: Object-Oriented Programming (OOP), Data Structures & Algorithms, MVC
  Development Skills: API Integration (Basic), Version Control (Git & GitHub)
- **System Analysis & Design**
  System Analysis: Requirement Analysis, System Requirement Specification (SRS), BPMN
  Modeling & Documentation: DFD, ERD, Data Dictionary, Stakeholder Mapping
  UI/UX: Figma (Wireframing, Prototyping, Usability Testing)
  Diagramming Tools: Draw.io, Miro (if applicable), Plantuml
- **Tools & Software**
  Development Tools: Visual Studio Code, XAMPP, Composer
  Design Tools: Figma, Draw.io
  Office Productivity: Microsoft Word, Excel, PowerPoint
  Version Control: Git, GitHub
- **Soft Skills**
  Critical Thinking & Problem-Solving, Communication & Presentation, Teamwork & Collaboration, Leadership (Small-Scale Projects), Time Management & Adaptability, Mentoring & Peer Support