

# ENRICO HEZKIEL SIRAIT

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I have a strong background in mathematics and hands-on experience in software development. My math skills and logical thinking allow me to solve problems creatively and analyze data effectively. Moreover, I've gained expertise in Software and Web Development, as well as Machine Learning. With a track record of successful projects and a commitment to continuous learning, I'm confident in my ability to contribute meaningfully to the field of information technology.

## Education Level

**Institut Teknologi Del**  - **Desa Sitoluama, Laguboti, Sumatera Utara** Aug 2021 - Sep 2025 (Expected)

*Bachelor of Currently studying in the field of Informatics, I have completed multiple projects including object-oriented programming, web development, and mobile development, 3.78/4.00*

- Achieved national finalist status in ONMIPA-PT 2022, showcasing excellence in mathematics
- Active member of the Student Executive Board, representing the Department of Sciences and Technology
- Participated in community service with faculty, enhancing Pardinggaran village tourism website.

## Experiences

**Indonesia AirAsia - Tangerang, Indonesia** Aug 2024 - Jan 2025

*Software Developer*

PT Indonesia AirAsia, operating as Indonesia AirAsia, is an Indonesian low-cost airline based in Tangerang, Banten. It operates scheduled domestic and international services and is an Indonesian associate carrier of the Malaysian AirAsia.

- Develop web application management system for Cabin Crew Training
- Collaborating with users to gather requirements, design interfaces, and develop a fully functional application to streamline training processes

**Penerbit Deepublish - Sleman, DI Yogyakarta** Jun 2024 - Aug 2024

*Web Developer Internship*

Deepublish is a book publishing company based in the Special Region of Yogyakarta. They specialize in educational publications, especially those aimed at higher education.

- Developing the Asset and Borrowing modules for Deepublish's employee application to enhance asset management and employee borrowing efficiency.
- Collaborating on requirement analysis, system design, and implementation, including comprehensive testing for functionality and performance.

**Student Teaching Asistant - Institut Teknologi Del, Sitoluama, Laguboti, Sumatera Utara** Jul 2022 - Dec 2023

*Lecturer Assistant*

Conducting post-lecture tutorial sessions for students, which include discussing the material, solving practice problems, and assisting the lecturer in grading exam answer sheets

- Student Teaching Assistant for Fundamentals of Mathematics I: Calculus I for Informatics Students, 2022
- Student Teaching Assistant for Fundamentals of Mathematics II: Calculus II for Electrical Engineering Students, 2023
- Student Teaching Assistant for Probability and Statistics for Engineering Management Students, 2023

## Projects

**Software Project Management : Form Rencana Kerja dan Form Evaluasi Diri Dosen Institut Teknologi Del** Feb 2024 - Present

*Full Stack Developer: Front End Developer, Back End Developer, Software Analyst*

The website application enables lecturers at Institut Teknologi Del to document their plans for fulfilling their TriDharma Perguruan Tinggi (Education, Research, Community Service).

- Implements the website design using HTML, CSS, JavaScript and php within the Laravel framework.
- Develops endpoints and RESTful API endpoints to facilitate backend communication. Develops the backend program using the Lumen framework to enable data manipulation on the website.
- Collaborates with the analyst team to understand the project requirements and ensure that the implemented features align with the business objectives.
- Implements the Microservices architectural design using laravel, lumen dan docker.
- Collaborates with other developers via GIT versioning control

**Web Application Based Programming: Website Program Studi Sarjana Informatika - Institut Teknologi Del** Oct 2023 - Jan 2024

*Scrum Master / Project Manager, Full Stack Developer, Quality Assurance*

A Bachelor of Informatics program website managed by the program head and campus information resources, containing program

information such as activities, events, competition information, and the student association. Built using the Laravel framework. Monitored using an agile-based SDLC: the Scrum framework.

- Gathering requirements from stakeholders: Program Head
- Reengineering the Informatics program website with updated needs
- Collaborating with the development team within the Scrum framework: Agile SDLC
- Responsible for monitoring and assisting team members throughout the sprint progress

#### **Artificial Intelligence : Sudoku Game Solver Using Backtracking Heuristic Algorithm - Institut Teknologi Del    Aug 2023 - Sep 2023**

*Analyst, Back-End Developer*

An Artificial Intelligence application to solve Sudoku game problems. Developed using the Python programming language and the Tkinter interface. Implements Backtracking and Heuristic Singleton algorithms to achieve effective and efficient solutions

- Analyzing application requirements, conducting literature reviews on the implementation
- Modeling problem-solving methods for Sudoku games using advanced brute-force algorithms: backtracking and informed search algorithms: heuristic singleton for Sudoku
- Implementing application design and program logic and testing the application with supervising lecturer

### **Skills, & Other Experience**

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- **Soft Skills** 🟢: Leadership, Project Management, Teamwork, Problem Solving, Public Speaking
- **Hard Skills** 🟢: Programming Language; LISP, C , Java OOP, Python, Javascript, php, kotlin android, Web Markup Language (HTML, CSS), UI/UX in figma, Microsoft excel, word, GIT versioning control, Laravel framework
- **Other Projects** 🟢 (2023): Object Oriented Programming, Human-Computer Interaction, Cryptography and Network Security, Socket Programming, Software Project Management