

DASTIN RAYNOLD SIRAIT

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My name is Dastin Raynold Sirait, a passionate Software Engineer dedicated to designing and building end-to-end digital solutions. I specialize in full stack development with strong expertise in Laravel and React, enabling me to create efficient, dynamic, and scalable applications.

With a balanced approach between technical logic and user interface aesthetics, I focus not only on system performance but also on user experience and real-world needs. I believe that every line of code is an opportunity to make an impact, and I strive to turn every project into a meaningful and functional piece of work.

Experience

PT Asuransi Sinar mas - PT Asuransi Sinarmas, Wisma 46 - Kota BNI, Jl. Jenderal Sudirman Kav. 1, Jakarta 10220, Indonesia.

Jun 2024 - Aug 2024

Internship

During this internship, I worked as a Pega Developer and was directly involved in developing enterprise applications using the Pega platform. My primary project was building a Loan System Application to support the vehicle financing process, which included features such as customer data input, vehicle selection, loan scoring, survey scheduling, and bank account selection.

Following the successful delivery of this project, I joined the CRM/Digital Department and contributed to internal development initiatives. One of the notable projects was creating Clumsy Bird – Independence Edition, a themed game developed to engage employees during the Indonesian Independence Day celebration on August 17th.

IT Del - Institut Teknologi Del, Jl. Sisingamangaraja, Sitoluama, Laguboti, Kabupaten Toba Samosir, Sumatera Utara 22381, Indonesia.

Aug 2023 - Dec 2023

Full Stack

My team and I developed the SPMB IT Del website — a registration platform for prospective students of IT Del. In this project, I contributed primarily as a frontend developer, implementing the UI design and developing key sections of the website, including the achievement and testimonial pages. Beyond development, I was actively involved in shaping the technical requirements and structure of the system, ensuring clear and achievable specifications. I also took part in quality assurance, conducting thorough testing to identify bugs and validate that the website met functional and design expectations.

IT Del - Institut Teknologi Del, Jl. Sisingamangaraja, Sitoluama, Laguboti, Kabupaten Toba Samosir, Sumatera Utara 22381, Indonesia.

Jan 2024 - May 2024

Software Engineer

In this project, I was responsible for both backend and frontend development of an application consisting of two main modules: Form Rencana Kerja (FRK) and Form Evaluasi Diri (FED). The application was developed to be used by lecturers for work planning and self-evaluation purposes. The project followed the Agile methodology with Scrum practices, which allowed us to work in iterative sprints, with each feature and module being developed progressively.

In the FRK module, lecturers can plan and document their tasks and goals for a specific period. Meanwhile, the FED module allows them to evaluate and reflect on their own performance. I played an active role in developing the application from both the backend and frontend perspectives. The backend was built using Laravel, ensuring robust functionality and seamless integration, while the frontend was designed with technologies such as HTML, CSS, and JavaScript to deliver an intuitive user experience.

Throughout the project, I was deeply involved in sprint planning, development, and testing to ensure the application met the users' needs

and operated smoothly.

IT Del - Institut Teknologi Del, Jl. Sisingamangaraja, Sitoluama,
Laguboti, Kabupaten Toba Samosir, Sumatera Utara 22381,
Indonesia.

Aug 2024 - Feb 2025

Machine Learning Engineer

Developed a multiscale vehicle detection application by implementing Feature Pyramid Network (FPN) and Faster Region-based Convolutional Neural Network (Faster R-CNN) with a Visual Geometry Group 16 (VGG16) backbone and Bayesian method. The model is capable of detecting cars at close, medium, and long distances, achieving a mean Average Precision (mAP) of 88% with strong detection performance, and was successfully deployed as a Flask-based web application.

IT Del - Institut Teknologi Del, Jl. Sisingamangaraja, Sitoluama,
Laguboti, Kabupaten Toba Samosir, Sumatera Utara 22381,
Indonesia.

Aug 2024 - Jul 2025

Machine Learning Engineer

Developed an object detection application by implementing Region-Based Convolutional Neural Networks (R-CNN) and Scaling Region Proposal Networks (RPN), focusing on multiscale vehicle detection and achieving robust performance.

Dicoding Academy - Jl. Batik Kumeli No.50, Sukaluyu, Kec.
Cibeunying Kaler, Kota Bandung, Jawa Barat 40123

May 2025 - Jun 2025

Software Engineer

Developed a web-based discussion forum application using React and Create React App, implementing component-based architecture with reusable UI elements. Integrated state management with React hooks, ensured code quality through ESLint and Prettier, and automated testing with Cypress. Optimized build process for production deployment with hashed bundles and caching strategies. Leveraged GitHub Actions workflows to streamline CI/CD for build and test automation.

Education Level

Institut Teknologi Del - Laguboti, Indonesia

Aug 2021 -

Bachelor of Informatics

SMA Plus Negeri 2 Lintongnihuta - Lintongnihuta, Indonesia

Jul 2018 - May 2021

Organisational Experience

Departemen Seni dan Budaya - Institut Teknologi Del

Nov 2022 - Jun 2024

documentation and publications

I have experience in Departemen Seni dan Budaya and am creative in the fields of music and art and active in every activity carried out in my organization.

Himpunan Mahasiswa Informatika - Institut Teknologi Del

Jan 2022 - Nov 2022

documentation and publications

I have experience in the Informatics student association organization where I served as a member and was a publication and documentation person in this organization

Skills

- **Soft Skills:** I am capable of collaboration, communication and problem solving in a team while working on a project
- **Hard Skills:** Web development with Laravel (backend systems, database handling); Frontend development with React (dynamic & responsive UI); Pega BPM (workflow, case management, automation); Machine Learning (Faster R-CNN, FPN, VGG16, TensorFlow, PyTorch); Flask (model deployment as web applications).