



# JOSUA SIREGAR

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Lingkungan IV, Pandan, 22612, Tapanuli Tengah, Sumatera Utara

As a back-end engineer, I am responsible for designing, developing, and maintaining the back end of the application and ensuring seamless integration between the front and back end. With strong skills in back-end programming using Node.js, PHP, Java, Python, and Golang and experience with Laravel, I am actively involved in developing projects. In addition, I have experience in front-end development using React JS and SQL database management. I apply best practices in software development, such as scalable and efficient system design, effective database management, and rigorous testing. Through my commitment to quality, I have delivered reliable back-end solutions to improve overall system performance and provide a positive user experience.

## Work Experiences

**PT. Indonesia AirAsia - Tangerang, Banten, Indonesia**

Feb 2024 - Present

*Mobile Developer*

- This application is built using the Dart programming language and the Flutter framework and uses Firebase (Technology from Google) as a database.
- Facilitate the pilot administrator in data processing and management.
- Facilitate testers (instructors) in providing a final assessment on the assessment form, based on the results of simulations conducted by test participants.
- Facilitate testers (instructors) in providing assessments during training sessions to test participants.
- Facilitate the process of borrowing and returning devices between HUBs and collect data on the condition of devices, both those that are still functioning and those that are damaged.

**Institut Teknologi Del - Laguboti, Sumatera Utara, Indonesia**

Sep 2023 - Present

*Back End Engineer*

- Build a front end using the PHP programming language with the help of the Laravel framework.
- Using MySQL database to store application data.
- Applying Python programming for algorithm model development in the machine learning process.
- Connecting the front end with machine learning using REST API for interface interaction.
- Testing and evaluating product recommendations using the developed algorithm model.

**Puslit EGOV CENTER - Laguboti, Sumatera Utara, Indonesia**

Sep 2023 - Dec 2023

*Mobile Developer*

- The application was built using the Dart programming language and the Flutter framework, integrated with a REST API for robust functionality.
- The implemented features include recording, payment, and complaint handling in the app.
- Significantly improves operator data transparency by up to 90%, driving efficient data management.
- Played a key role in beta testing, identifying and resolving 95% of issues before the official app launch.

**Institut Teknologi Del - Laguboti, Sumatera Utara, Indonesia**

Jan 2022 - Jun 2022

*Fullstack Developer*

- Build a front end and back end using the HTML, CSS, JavaScript, PHP programming language with the help of the Laravel framework.
- Using MySQL database to store application data.

## Education Level

**Del Institute of Technology  - Laguboti, Sumatera Utara**

Aug 2021 -

*Associate Degree in Information Technology, 3.55/4.00*

- Student Teaching Assistant Computer Architecture and Organization.
- Participated in a Gemastik Competition.
- Matriculation assistant for new students.
- Student Leadership Program
- Developer for Kedaireka's Matching Fund Program

## Organisational Experience

**BEM**

Jan 2023 - Present

### *Member of the Order and Discipline Department*

BEM (Student Executive Board) is a pivotal student organization at Institut Teknologi Del, dedicated to enhancing student life through leadership, advocacy, and community engagement.

- Responsible for the maintenance and enforcement of order during campus activities.
- Organize and supervise student events to ensure safety and order.

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

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- **Achievements** (2023): Matriculation Assistant for New Students
- **Projects**  (2023): Machine Learning Dynamic Programming Implementation for Route Optimization
- **Projects** (2023): Machine Learning Diamond Shape Identification Website Using CNN
- **Projects**  (2023): Tracking Vaksin with ASP .NET
- **Projects**  (2023): Delhub Mobile-Based Application
- **Projects**  (2023): E-Commerce Website build Golang Programming with Microservice
- **Projects**  (2022): MarketKu Desktop Application build Java Programming with OOP
- **Projects**  (2022): LokerKu Website
- **Projects**  (2022): BookselfAPI
- **Achievements**  (2022): Student Teaching Assistant Computer Architecture and Organization
- **Achievements**  (2022): Gemastik XV UI/UX Design
- **Soft Skills**: Public Speaking, Communication, Leadership, Collaboration Team, Critical Thinking, and Problem Solving,
- **Hard Skills** : Web Development, Mobile Development, Programming Language, Database Management, Microservice and API, Debugging and Troubleshooting, Framework and OOP