



# FEBIOLA ALYA HUTAGALUNG

*Software Engineering, UI / UX*

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## PROFILE

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I am an Information Technology student at Del Institute of Technology with a strong commitment to continuous learning, exploration, and innovation in the field of software development. I am interested in cross-platform end-to-end application development, with the goal of becoming a reliable developer in delivering useful and relevant digital solutions. This interest is driven by my passion for structured systems and user-friendly experiences, motivating me to build web and mobile applications that not only function well but are also easy to use and intuitive. I am also enthusiastic about learning new technologies and expanding my technical skills to adapt and thrive in the ever-changing world of technology.

## EDUCATION

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### Information Technology

*Institut Teknologi Del*

3.37/4.00

08/2023 – Present

Associate Degree

### SMA Negeri 1 Siborongborong

*Science Program-Chairman of the Student body*

06/2021 – 05/2023

Senior High School

## PROJECT

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### Dentalogics8

*UI/UX, Data Analyst*

08/2025 – Present

- Designing mobile applications end-to-end (user flow, wireframes, UI components, and high-fidelity prototypes) to ensure an intuitive experience for underserved users.
- Built React Native app: real-time camera scan, image upload, ICDAS (Do-D6) classification, and treatment recs for underserved users.
- Engineered YOLOv12 models: tested 3 backbones (R-ELAN, MobileNetV3-small, EfficientNetBo) + 3 necks (FPN, BiFPN, PANet) on 6,313-image Zenodo dataset (Roboflow-annotated).
- Tuned hyperparameters via Optuna (20 trials, 400 epochs) on NVIDIA H200

### PUSMASIB Health Service Platform — Patient Mobile App & Admin Web

*Developer, UI/UX*

02/2025 – 07/2025

- Develop several core features of the application according to the team's division of tasks and ensure that the implementation runs according to user needs and system design.
- Designing the UI/UX of a mobile application to support the health services of the Siborongborong Community Health Center, from user flow design and wireframes to prototypes that are easy to use for patients and administrators.
- Designing database structures and relationships to support integrated and consistent application data storage and management.

Tech Stack: Dart (Flutter), PHP (Laravel), Blade, C, C++, SQL, GitHub

### Information System for HKBP Sabungan Church Web App

*Frontend Developer, Data Analyst*

02/2024 – 07/2024

- Conducting data requirements analysis and developing the necessary data/attribute structure to support church information management features.
- Developing the appearance and features of the HKBP Sabungan information system website interface using PHP and Laravel, with a focus on a responsive and user-friendly UI.
- Compiling BRD and designing UML (Use Case, Activity, Class Diagram) and ERD as system design documentation.

Tech Stack: Laravel, PHP, SQL, JavaScript, Blade, CSS/SCSS, GitHub

## Mobile App Cafe Del

10/2024 – 12/2024

- Developing the Cafe Del mobile application to make it easier for users to view cafe information and place orders more conveniently.
- Designing user flows and interface displays that are simple, clear, and easy to use.
- Implementing application features as needed and conducting functional testing to ensure the application runs smoothly.

Tech Stack: Flutter (Dart), C++, HTML, GitHub, Android Studio

## Grade Calculator (GATOR)

06/2025 – 07/2025

- Developing the Grade Calculator (GATOR) application to help IT Del students predict
- Designing the UI/UX of the application, starting from the user flow, wireframe, to a simple, clear, and easy-to-use interface prototype.
- Implementing prediction calculation logic and displaying results in an informative manner so that users can make more informed learning decisions.

## Evaluasi & Redesign UI/UX Aplikasi “Rumah Kreatif Toba” ☺

10/2024 – 12/2024

*Mini Project Desain Pengalaman Pengguna (UX Research & UI Prototype)*

- Conducting usability evaluations on the Rumah Kreatif Toba e-marketplace platform (Toba MSME products) using Heuristic Evaluation, Competitive Analysis, and System Usability Scale (SUS).
- Redesign the application structure through a new sitemap, task flow, and user flow to improve product search efficiency and the checkout process.
- Developing a high-fidelity prototype in Figma includes the following pages: homepage, product catalog, categories, product details, shopping cart, checkout, payment, transaction history, shipment tracking, and delivery confirmation.

## Toba Event Finder (Web Platform Business Plan & UI/UX Prototype)

10/2025 – 12/2025

*Digital Product / Startup Idea*

- Developed a business plan for Manjara, a web-based local event-finder platform focused on the Lake Toba area, aimed at centralizing scattered event information into one organized, accessible hub.
- Defined product vision, brand identity, and value proposition with tagline “Where Toba Comes Together”, positioning Manjara as a bridge between tourists, local culture, and event organizers.
- Designed core product features: event search & filtering, event detail pages, online ticket ordering/purchase, user dashboards, and organizer tools for creating events and managing tickets.

## EXPERIENCE

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### English I Assistant Lecturer

09/2024 – 12/2024

*Assistant Lecturer*

- Served as Teaching Assistant for English II course, instructing 59 students on grammar fundamentals.
- English Teaching Assistants assist in the learning process by assisting lecturers in teaching, providing additional material, answering student questions, and correcting assignments and exams.

### Apple Foundation Program

06/2025 – 07/2025

*Infinite Learning x Apple Developer Academy*

Batam, Indonesia

- Completed the Apple Foundation Program, which focuses on developing technology-based solutions through a design thinking approach, team collaboration, and application prototyping.
- Building applications using the Swift language, from designing application flows and calculation logic to creating interface prototypes.

## ORGANISATIONS

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### DEPKOMINFO (Department of Communication and Information)

01/2025 – Present

*Member of the publications division*

Laguboti, Indonesia

- Collaborate with diverse stakeholders to ensure the accuracy and accessibility of information disseminated to the entire academic community.
- Contribute to enhancing communication effectiveness by streamlining information flow and improving content reach across various platforms.

- Managing BEM IT Del's social media, including content planning, caption writing, and posting scheduling.

### **Head of High School Student Council**

*Ketua Osis*

- Leading the Intra-School Student Organization (OSIS) in planning and implementing school work programs.
- Coordinating administrators and collaborating with the school to ensure the success of academic and non-academic activities.

2022 – 2023

SMAN 1

Siborongborong

## **CERTIFICATES**

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### **IBM Relational Database Administrator**

Professional Certificate from IBM through Coursera. Covers 11 courses on relational database administration: database design & security, SQL querying, backup & recovery, process automation, performance tuning, and MySQL & PostgreSQL practices. Also includes data engineering projects with Python, Linux shell scripting, ETL, Airflow, Kafka, and data warehouse fundamentals.

### **Certificate of Completion – Apple Foundation**

#### **Program @ Infinite Learning**

Completed the Apple Foundation Program organized by Apple Developer Academy @ Infinite Learning. The program ran from June 10 to July 11, 2025, and focused on basic development of digital applications/products in the Apple ecosystem as well as teamwork/projects.

## **SKILLS**

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**Languages** : Indonesia (Native), English (Intermediate)

**Industry Knowledge** : Project Management, Software Testing, Software Development, Web Development, Databases, UI/UX Design

**Technology** : Flutter (Dart), Laravel, PHP, JavaScript, HTML, CSS/SCSS, SQL/MySQL, Python (PyTorch, Jupyter), Git, GitHub, Postman, SQLyog, Android Studio, Xcode, Figma, Visual Studio Code.

**Interpersonal Skill** : Leadership, Teamwork, Teaching, Communication, Continuous Learning, Problem-Solving, TimeManagement

## **VOLUNTEERING**

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### **Multimedia Coordinator – Photography Contest 2025 (BEM IT Del)**

01/2025 – 02/2025

*BEM IT Del | Multimedia Division*

Coordinated the multimedia team for Photography Contest 2025 held by Depkominfo BEM IT Del, ensuring smooth execution of visual and promotional needs.

### **Committee for Kaderisasi Program 2024**

Serving as the group PIC for the 2024 Cadre Program, responsible for coordinating members and ensuring that group activities run smoothly.

### **Committee for Del Festival 2025**

*Documentation Division*

The Del Festival 2025 Committee (Documentation Division) documents the series of events through photos/videos and coordinates with the team to ensure that the documentation is neat, timely, and ready for publication.

### **Committee for IDG (Inauguration Dies Natalis)**

*Radio, Social Media, Mass Media, Publication Division*

Wrote and published news updates on del.ac.id during the event, ensuring timely and accurate coverage and supported live event reporting and content dissemination through radio and social media channels in coordination with the publication team.