Salsabila Herlin Syahputri Lubis

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Professional Summary

I am an IT student specializing in artificial intelligence. I have built AI-driven web applications using Python, Scikit-learn, Pandas, NumPy, and modern web technologies. I am seeking a Software Engineer or Machine Learning Engineer role to apply data-driven problem-solving to real-world systems.

Education

President University – Cikarang Utara, Kabupaten Bekasi, Jawa Barat
Bachelor of Information Technology

Aug 2024 – Present

Certifications

Machine Learning Foundations – Amazon Web Services (AWS) *August 2025*

Python (Basic) – HackerRank *August 2025*

Software Engineer Certificate – HackerRank *August 2025*

JPMorgan Chase & Co - Software Engineering Job Simulation – Forage *August 2025*

Introduction to Flutter Course – Simplilearn *July 2025*

Python Essentials 1 – Cisco *February 2025*

Java (Basic) – HackeRank *January 2025*

Skills

Programming Languages: Java, Python, C++, JavaScript, PHP
Backend: Spring Boot, Node.js, REST APIs, Flask
Frontend: React, Next.js
Mobile Development: Flutter
Databases: MySQL, Firebase
Machine Learning: TensorFlow, Scikit-learn, Pandas, NumPy, Pytorch
Tools: Git

Projects

Commodity Price Forecast - Web

December 2025 – December 2025

- This project predicts future daily commodity prices using machine learning and statistical forecasting models through a simple and interactive web application. The data is sourced from Pangan Strategis Nasional (PIHPS Nasional) and covers historical prices from 2019 to 2025. The frontend is built with React.js to provide a modern, interactive user experience with smooth animations and responsive design, while the backend uses a Flask (Python) API to handle data processing and connect the web application with the prediction models. The application employs multiple forecasting models, including SARIMA, Prophet, Holt-Winters, and an Ensemble model, to improve prediction accuracy. Users can select commodities, choose forecast periods, and view results through clear and interactive charts, with the application fully responsive on both desktop and mobile devices and supported by easy-to-understand explanations of the prediction process and models.

Library Management - APP

November 2025 – December 2025

- I developed a cross-platform library application using Flutter that runs seamlessly on Android, iOS, web, and desktop. The app allows users to browse the book catalog, borrow and return books, track due dates, and engage with the community through ratings, reviews, discussions, reading groups, and leaderboards. It uses Firebase Authentication for secure user access and Firebase (Cloud Firestore) as the database to manage user data, book collections, transactions, and community interactions, and includes an interactive map to help users easily find library locations. Throughout the development, I applied strong time management and attention to detail to plan and prioritize the schedule, ensuring timely delivery and high quality for each feature.

Mental Health - Web

November 2025 – December 2025

- I developed a full-stack mental wellness application that supports both patients and therapists. The application is built using React.js for the frontend, Node.js and Express.js for the backend, and MySQL for structured data management. It features an AI-powered chatbot integrated with the Groq API (Llama-3.1) for intelligent conversational support, as well as real-time emotion detection during video sessions using TensorFlow.js, Face-api.js, and OpenCV. Additional functionalities include easy appointment scheduling, post-session emotional analysis reports, and secure authentication with a face-based login option, delivering a comprehensive and intelligent mental wellness platform.Project description

SuaraKita – A Social Awareness Web Platform

May 2025 – June 2025

- I developed SuaraKita, a full-stack web platform that raises social awareness through articles and community storytelling on topics such as climate change, mental health, and gender equality. The platform is built using Laravel and PHP for the backend, MySQL for database management, and a responsive frontend developed with HTML, CSS, JavaScript, and Bootstrap. It enables users to share stories, comment, and interact with one another, and also includes an admin dashboard for efficient content moderation and content management.

Food Delivery Web

April 2025 – May 2025

- This project was developed for the Server Side Internet Programming (SSIP) course using Laravel, MySQL, and a responsive frontend built with Bootstrap, HTML, CSS, and JavaScript. The application supports restaurant search, menus, ratings and reviews, multiple delivery and payment options, real-time order tracking, and order cancellation, along with dashboards for restaurant admins to manage orders and drivers to handle and complete deliveries.,

Real-Time Statistics and Probability Web

May 2025 – May 2025

- I developed a web-based tool for analyzing and visualizing statistics and probability concepts to support learning and data interpretation, built using HTML, Cascading Style Sheets (CSS), and JavaScript. The application includes descriptive statistics such as mean, median, mode, variance, and standard deviation; probability distributions like Binomial, Poisson, Normal, and Exponential; and inferential statistics including confidence intervals, hypothesis testing, and chi-square analysis. It also supports regression and correlation analysis and offers interactive data visualizations through bar, line, pie, scatter, histogram, and box plots.

Languages

Indonesian (Native), English (Professional)