

Akhtar Jaffan Ramadhan

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Jakarta Metropolitan Area

SOFTWARE DEVELOPMENT

An enthusiastic and adaptable Computer Science student with a strong foundation in **Machine Learning** and **Data Science**, eager to apply analytical skills and technical knowledge to real-world IT challenges. With hands-on experience in building machine learning models and conducting data visualization, I excel in turning data into actionable insights. Additionally, my skills in **Software Development**, **Team Leadership**, and **Problem-Solving** allow me to adapt to various IT roles, ensuring a versatile and impactful contribution to any organization. Seeking an **IT Internship** where I can grow professionally while contributing to innovative projects.

KEY COMPETENCIES

Machine Learning	Programming	Leadership
Data Science	Problem-Solving	Communication
Artificial Intelligence	Teamwork	Project Management

EXPERIENCE

Binus University **Sep 2023 - Jun 2024**

Freshmen Partner For Binusian 2027

Supported over **10+ freshmen** by facilitating **four Freshmen Year Programs (FYP)** sessions per month across **two semesters**, improving student engagement and onboarding. Collected feedback from students to enhance their orientation experience and worked closely with leadership to implement improvements in student involvement and program effectiveness.

Binus University **Jul 2023 - Sep 2023**

Freshmen Leader For Binusian 2027

Facilitated communication with **40+ freshmen** via WhatsApp and Discord, resolving over **10 weekly queries** and ensuring **95% engagement** through personalized support. Coordinated orientation activities to ensure smooth execution and compliance, fostering student success in their first year.

SMAIT Thariq Bin Ziyad **Nov 2019 - Nov 2020**

Head Of Public Relation and IT Division of Thariq Festival 12

Led a **10-member team** in developing the festival's website, achieving a **30% increase** in online engagement for **700+ participants**. Utilized Instagram analytics to optimize digital marketing strategies, adapting to the challenges posed by **COVID-19** by shifting outreach efforts online and enhancing public relations through targeted content.

SMAIT Thariq Bin Ziyad **Nov 2019 - Jul 2020**

Class Deliberation Assembly - Division A

Evaluated performance reports for student council programs, providing key insights and contributing to the strategic direction of student initiatives.

NOTEABLE PROJECTS

NoteIT - AI Powered Notebook

NoteIT is an AI-powered application designed to help users efficiently organize, analyze, and utilize information. By integrating advanced natural language processing technology (**LLaMA3**) and machine learning capabilities, NoteIT empowers users to take notes, perform searches, and structure information seamlessly, offering the experience of having a personal assistant readily available

Competencies : Large Language Model (LLM), React.js, Node.js MongoDB

Signfinity - Sign Language Translator With AI

Signfinity is an innovative app that facilitates communication for deaf and mute individuals by providing tools to create custom languages. It offers data collection features, visual analytics through graphs and tables, and supports various machine learning and deep learning models, including **Random Forest, Decision Tree, K-Nearest Neighbors, SVM, Naive Bayes, CNN**, and soon with **Azure Machine Learning** integrations

Competencies : Artificial Intelligence, Machine Learning, HTML, CSS, Javascript

WaterGuard

WaterGuard is a mobile and web app that monitors and manages water quality in Indonesia using water sensors, cloud platforms, and data analysis. It provides accurate water quality information to the public, industries, government, and researchers, addressing the clean water crisis caused by domestic waste, industrial pollution, agriculture, and marine debris.

Competencies : HTML, CSS, Javascript, Teamwork, Web Design

Emotion Detection Using Machine Learning - Computer Vision

Developed deep learning models for facial emotion recognition using **PyTorch**. This involved preprocessing and augmenting image data, implementing and training models like **ResNet, CNN**, and **EfficientNet**, and evaluating performance using metrics like **accuracy, precision, and recall**. Utilized **transfer learning** and fine-tuning for model optimization and **early stopping** to prevent overfitting. This project showcases practical application of AI for image analysis and emotion detection

Competencies : Artificial Intelligence, Machine Learning, Pytorch, Artificial Neural Network

EDUCATION & CERTIFICATIONS

Bachelor of Computer Science

Majors: **Software Engineering**

Expected Graduation: July, 2026

Binus University

High School Diploma

SMAIT Thariq Bin Ziyad

Microsoft Azure AI Fundamentals

Biji-biji Initiative

Certificate of Completion Skill Academy Pro -

Mastering AI

Skill Academy by Ruangguru

EXTRACURRICULAR ACTIVITIES

Member, Binus English Club

Binus University

Community Volunteer

Socialization of Anti-Racism Activities in the School Environment

Batik Conservation Activity at

Rumah Batik Palbatu, Tebet, South Jakarta

Exploring the Meaning of Tolerance from the Perspective of Religious and Community Leaders in Indonesia