

Muhammad Rizky Sya'ban

mrizkysyaban99@gmail.com | +62 821 974 475 00

🌐 <https://mrsybn.site> | 🐙 github.com/mrsyaban | 🔗 [linkedin.com/in/mrsyaban](https://www.linkedin.com/in/mrsyaban)

SUMMARY

A final year informatics student skilled in developing AI solutions that extract valuable insights from complex data. lately passionate for Machine Learning and AI innovation includes Computer Vision, GenAI, and LLM. Proven collaborator with cross-functional teams, leveraging cutting-edge technologies to address real-world challenges. Committed to continuous learning, driving impactful results, and advancing the boundaries of AI technology. Open to new opportunities where creativity, dedication, and technical expertise can contribute to shaping a better future.

EDUCATION

BANDUNG INSTITUTE OF TECHNOLOGY (ITB), Indonesia

July 2025 (expected)

#1 Science and Engineering School in Indonesia.

B. Eng in Computer Science (4th year / 7th sem), Current GPA: 3.53/4.0

- Merit-based academic scholarship recipient, top 3% from 15,000+ applicants across Indonesia
- Relevant courses: Artificial Intelligence, Machine Learning, Computer Vision, Natural Language Processing, Software Engineering, Database Management, Parallel and Distributed Systems.
- Currently works on final project about adversarial attack on

MAN INSAN CENDEKIA GORONTALO, Indonesia

May 2021

Mathematics and Natural Science

Rank: 1/120

WORK EXPERIENCE

BANGKIT ACADEMY Led By Google, Goto, & Traveloka – Indonesia

Sept 2024 – Present

Machine Learning Cohort, Student Academy

- Selected as one of 4,636 students (≈10%) out of over 45,000 applicants across Indonesia for an intensive Machine Learning program.
- Completed 25+ online courses along with three specializations in data analysis, machine learning, deep learning, and generative AI
- Developed a final project application that connects UMKM (micro, small, and medium enterprises) with investors, facilitating funding opportunities for UMKM businesses and incorporating an AI-powered recommendation system.

NALAGENETICS – Jakarta, Indonesia (Hybrid)

June 2024 – Aug 2024

Software Engineer, Full time Internship

- Provided continuous support and maintenance for software that delivers end-to-end automation of the company's business processes, ensuring smooth operations and efficiency.
- Worked within a full Scrum methodology using Jira to manage the development and maintenance of Clinical Decision Support (CDS) systems, utilizing MEAN stack technology.
- Contributed to migrating legacy code to a newly designed, well-structured backend architecture, improving system efficiency and scalability.
- Implemented 100% code coverage through unit testing for every new feature, ensuring robust functionality, reliability, and high-quality code.

THINKSPEDIA – Tangerang, Indonesia (Remote)

Mar 2024 – Jul 2024

Front end Engineer, Part time Internship

- Designed and implemented a school employee management system from scratch using Hexagonal Architecture with Next.js, ensuring a clean and maintainable code structure.
- Leveraged Inversify for dependency injection, creating a modular and scalable codebase to enhance system flexibility and performance.
- Implemented responsive and modular UI components using Tailwind CSS and Shadcn, ensuring a flexible and adaptive user interface across devices.

EBSI INSTITUTE – Bandung, Indonesia

Dec 2023 – Feb 2024

Full stack Engineer, Freelance

- Developed a comprehensive company profile website using the MERN (MongoDB, Express, React, Node) tech stack, delivering a dynamic and user-friendly platform.
- Utilized MongoDB for efficient data storage, Express and Node.js for seamless backend operations, and React for creating an interactive and responsive front-end experience.
- Built an admin dashboard feature for company administrators to easily manage website content, including adding and updating events and articles.

SELECTED PROJECTS

- AICE** : <https://aice-anak-soleh.netlify.app> 2024
- Designed and implemented an Automated Interview Competence Evaluator website with 3 components: CV analysis module leveraging Gemini API, Interview question generator, and a video-based interview analyzer.
 - Video interview analyzer processes user interview videos by extracting frames and analyzing emotions using CNN model, gestures using mediapipe, audio clarity using librosa, and analysis insights using Gemini LLM.
- SIBI SIGN LANGUAGE DETECTOR**: <https://github.com/mrsyaban/sibi-detector> 2024
- Developed a web-based application using Next.js and ONNX runtime for real-time detection of Indonesian Sign Language SIBI gestures, leveraging a YOLOv8 model trained on a dataset pipelined from Roboflow.
 - Implemented client-side inference through WebAssembly integration, enabling efficient and seamless sign language recognition directly in users' browsers without server-side processing.
- GUS MIFTAH** : [link to paper](#); [link to repository](#) 2024
- GUS MIFTAH stands for “Gateway to Unified Southeast Asia by Maximizing Information on Food, Tourism, and Accommodation with Hybrid AI”.
 - Addresses cultural diversity and vibrant tourism potential in South East Asia by employing advanced hybrid AI technologies, including Retrieval-Augmented Generation (RAG), NER, and QA
- SAHABAT-AI & SEA-LION BENCHMARKING** : bit.ly/sea-lion-sahabat-ai-benchmarking 2024
- A Holistic Linguistic and Cultural Evaluation on Sahabat-AI and SEA-LION Large Language Model (LLM), based on works done on [paper BHASA](#).
 - Evaluation done in 19 tasks, evaluated the performance of 8 LLM models, across 15 NLP tasks using 10 datasets in Indonesian and Southeast Asian languages, leveraging metrics such as Accuracy, F1 Score, ROUGE, and COMET.
- EIGEN FACE RECOGNITION** : <https://github.com/mrsyaban/EigenFace-Recognition> 2022
- Build a desktop app to recognize a faces in dataset by comparing the eigen vector with query image..
 - The Eigenfaces method for face recognition utilizes Principal Component Analysis (PCA) to reduce the dimensionality of facial images, identifying key features that capture the most variance among different faces.

HONORS & AWARDS

- 2nd Winner of Web Development Competition** - IFEST, Padjadjaran University 2024
- Developing a web-based solution that leverages AI to help job seekers land their dream jobs.
- Student Award Winner AI Innovation Challenge** - Compfest, University of Indonesia 2024
- Top 2% out of 212 teams in developing an AI-based solution to address the shortage of digital talent in Indonesia.
- Djarum Beasiswa Plus Scholarships Awardee** - Djarum Foundation 2023
- Merit-based academic scholarship. Top 3% from 15,000+ applicants from Indonesia
- Finalist Data Analytics Dash** - University of Indonesia 2023
- Top 1 among The Top 15 out of 700 teams from across Indonesia in preliminary phase for tackling 65 SQL-related questions using PostgreSQL within a 4-hour

SKILLS

Software Engineering	: Next, React, Node.js, Express.js, Gin, Golang, Python, FastAPI, Django, Flask, PostgreSQL, MongoDB
Machine Learning & AI	: TensorFlow, scikit-learn, PyTorch, Keras, ONNX, Pandas, Numpy, RoboFlow, YOLO, mediapipe, OpenCV.
Data Analysis	: Pandas, NumPy, Scipy, Seaborn, Matplotlib, Tableau.
Miscellaneous	: Google GCP, Amazon AWS, Linux, Docker, Jupyter, Git.

ORGANIZATIONAL EXPERIENCE

- ARKAVIDIA** – Bandung, Indonesia Sept 2023 – Present
Deputy Head of Event, Arkavidia 9.0 HMIF ITB
- Designed and organized tech academy, talkshow, and job fair for undergrad student from all across indonesia
- GOOGLE DEVELOPER STUDENT CLUBS** – Bandung, Indonesia July 2023 – May 2023
Deputy Head of Event Team, GDSC ITB
- Successfully designed and organized 10+ tech workshops with 2000+ attendees.
- INFORMATICS STUDENT ASSOCIATION OF ITB** – Bandung, Indonesia Aug 2023 – Oct 2023
Head of Event Division, Wisokto HMIF
- Designing and coordinating three events for HMIF Graduation Festival 2023 with 500+ attendees.