Mohammad Rifqi F.





https://github.com/rifqifarhansyah

RESEARCH INTERESTS

Computer Vision (Pattern matching and analysis).

Networks System (5G; WiFi 6/802.11ax; Random Access; RAN Intelligent Controller;).

Machine Learning (Systems and networks predictability).

Artificial Intelligence (AI)

Internet-of-Things (IoT)

EDUCATION

2021-	School of Electrical Eng. and Informatics, Institut Teknologi Bandung (ITB), Bandung, Indonesia,
Present	Current GPA: 3.72 out of 4.0.
2018-	SMA N 1 Magelang, Magelang Indonesia, Achievement: 1st Place as Best Graduate Student of Natural
2021	Science Department (3.64 out of 4.0)
2015-	SMP N 1 Muntilan, Magelang Indonesia, Achievement: 2 nd Place in National Examination that held by
2018	Indonesian Ministry of Education (38.0 out of 40.0)

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	onesian Ministry of Education (38.0 out of 40.0)	
Jan 2023- Present	 TEEP Research Internship Program, Bandung, Indonesia A remote research internship for talented International students in collaboration program at BMW Lab, NTUST. Focused on studying RAN architecture, 5G, and RAN Intelligent Controller (RIC). 	
	o Supervised by Prof. Ray-Guang Cheng.	
Aug 2022- Dec 2022	 Computer Labs Assistant (Comlabs -USDI ITB), Bandung, Indonesia Chosen as 1 out of 500+ applicants to guide 35+ practitioners in doing practicum regarding python. Have responsibilities to teach the practitioners, rate their assignment, and give advise to them. Skills : Algorithms, Python (Programming Language), etc. 	
Feb 2022- Present	 Undergraduate Research Program at Garuda Ilmu Komputer (GIK) Lab, Bandung, Indonesia GIK Lab was formed to prepare Indonesian students who are bright and passionate about building the nation to be able to continue their studies at world-class universities, especially in the United States, in the area of Computer Science and Engineering. In this preparatory program, Indonesian students will conduct joint research with leading international professors in the United States. 	
Jan 2022- Aug 2022	 e-Research Intern at NTUST, Bandung, Indonesia This is a remote research mentorship program for talented International students in collaboration at BMW Lab, NTUST. Focused on studying Random Access, WiFi 7, and 802.11ax; also having responsibility to make weekly report and assignment that teach me to stay productive. Supervised by Prof. Ray-Guang Cheng. 	
AWARDS		
Scholarship Scholarship	Granted scholarships for monthly expenses from AKABRI 67-70 Foundation. Granted a full scholarship for my tuition fees during my study in Institut Teknologi Bandung. The details can be looked at the official website: kip-kuliah.kemdikbud.go.id/ Best academic volunteer at SMAN 1 Magelang. 2021 2021 2021	
Volunteer Best academic volunteer at SMAN 1 Magelang.		

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	Bandung	g. The details can be looked at the official website: kip-kuliah.kemdikbud.go.id/	
Volunteer	Best ac	ademic volunteer at SMAN 1 Magelang.	2020
COMPETIT	ION		
1st Place	National	Ruangguru Champion Season. Academic Olympiad that held by Ruangguru	2019
		Company, won USD1000.	
1st Place	Regional	Kompetisi Sains Nasional (KSN), in Physics at first stage. Physics Olympiad that	2019
		held by Indonesian Ministry of Education.	
3 rd Place	National	Tidar Mathematics Competition at Tidar University.	2019
1st Place	Regional	Lomba Debat Bahasa Indonesia (LDBI), Best Speaker at first stage. Indonesian	2019
		Language Debate Contest that held by Indonesian Ministry of Education.	
Finalist	National	Undip Mathematics Competition at Diponegoro University.	2019
4th Place	National	Academic Quiz Contest that held by Indonesian Ministry of Education.	2018
Finalist	National	Physics Competition at Yogyakarta State University.	2018

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2017

first stage.

DIGITAL PROJECT EXAMPLE

Finalist

EigenFace Recognition with Python GUI (https://github.com/rifqifarhansyah/EigenFace-Recognition)

- o This project is associated with Geometry and Linear Algebra course of STEI, ITB.
- o In this program, we can upload our photo or use the webcam to take a realtime photos.
- o The result of comparison between the uploaded photo with the eigen face database.
- o I have contributed to make an User Interface with Python GUI. The libraries that I used to construct this project are CustomTkinter (version 4.6.3), PIL (version 8.4.0), Tkinter (version 8.6), and FPDF (version 1.7.2).

Batik Pattern Classification (https://github.com/rifqifarhansyah/Batik-Pattern-Classification)

- o This project is associated with Discrete Mathematics course of STEI, ITB.
- o In this program, I made a program to analyze the pattern from input image and then compare them with the training image.
- o I utilize global feature extraction to take the pattern, texture, and colour allocation from every batik picture. The database of this program have been specified by me, about 80 pictures. In this program, I add 4 database of indonesian batik pattern (parang, nitik, ceplok, lereng).

Matrix Calculator with Java (https://github.com/rifqifarhansyah/Algeo01-21086)

- o This project is associated with Geometry and Linear Algebra course of STEI, ITB.
- In this program, we can determine the solution of linear equations (no solutions, single solutions, or paramethric), determinant of augmented matrix, linear & bicubic interpolation, and find the inverse of certain matrix.
- O I have contributed to make function for paramethric solution of linear equations, determinant with cofactor methods, inverse of matrix, save method, and main menu interface.

TECHNICAL SKILLS

ML/AI OpenCV, Tensorflow and Keras.

Database Familiar with Firebase, MongoDB and MySQL.

Cloud Hosting AlibabaCloud, AWS, Github, Heroku, Netlify, Repl.it, Vercel, etc.

IoT Worked in projects using **Arduino IDE**.

PL Assembly, Bash, C, C++, C#, CSS, Dart, Go, Haskell, HTML, Java,

JavaScript, Kotlin, Markdown, Php, Powershell, Python, Prolog, etc.

Tools Git, GitHub, Postman, VSCode.

SKILLS

Physics Having deeply knowledge in Physics material such as particle kinematics, linear motion particle

dynamics, circular motion particle dynamics, work and energy, momentum, simple harmonic

oscillations, rigid body dynamics, dimensions, and hydrostatic pressure.

Language Indonesian (Native); English (Professional working proficiency); Deutsch (Limited working

Proficiency)

REFERENCE

Ray-Guang Cheng Distinguished Professor, Electronic and Computer Engineering, NTUST-Taiwan,

crg@mail.ntust.edu.tw

Find me on : https://rifgifarhansyah.vercel.app/

I declare the details stated to be true and complete. (CV updated on February 5, 2023)