

Mohammad Rifqi F.

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RESEARCH INTERESTS

Distributed/Cloud Systems (Cloud and data-intensive processing systems; and memory & storage).

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

Machine Learning (Systems and networks predictability).

Artificial Intelligence (AI)

Internet-of-Things (IoT)

EDUCATION

2021- Present School of Electrical Eng. and Informatics, **Institut Teknologi Bandung (ITB)**, Bandung, Indonesia, **Current GPA : 3.67 out of 4.0.**

2018- 2021 SMA N 1 Magelang, Magelang Indonesia, Achievement: **1st Place as Best Graduate Student** of Natural Science Department (**3.64 out of 4.0**)

2015- 2018 SMP N 1 Muntilan, Magelang Indonesia, Achievement: **2nd Place in National Examination** that held by Indonesian Ministry of Education (**38.0 out of 40.0**)

EXPERIENCE

- Aug 2022- **Computer Labs Assistant (Comlabs -USDI ITB)**, Bandung, Indonesia
- Present
- 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- **Undergraduate Research Program at Garuda Ilmu Komputer (GIK) Lab**, Bandung, Indonesia
- Present
- 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.
 - Supervised by Prof. Haryadi S. Gunawi (University of Chicago) and his PhD students.
- Jan 2022- **Pre-Research Intern at NTUST**, Bandung, Indonesia
- Aug 2022
- 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.
- Jan 2020- **Physics Tutor for National Science Olympiad**, Natural Science Department of SMA N 1 Magelang
- Dec 2021
- Having teaching responsibilities in particle kinematics, linear motion particle dynamics, circular motion particle dynamics, work and energy, momentum, simple harmonic oscillations, rigid body dynamics, dimensions, and hydrostatic pressure.
 - As a vice coordinator at National Science Olympiad team selection of SMAN 1 Magelang (Jan 2020 - July 2020).
 - Chairman of National Science Olympiad physics team (Jan 2020 - July 2020).
- Jan 2020- **Debate Tutor for National Debate Competition**, SMA N 1 Magelang
- Dec 2021
- Having teaching responsibilities in Debate structure such as pro & cons arguments, rebuttal, etc.
 - As a coordinator at National Debate Competition team selection of SMAN 1 Magelang (Sep 2020 -Dec 2020).
 - Chairman of National Debate Competition team (Jan 2020 - July 2020).

AWARDS

Scholarship	Granted scholarships for monthly expenses from AKABRI 67-70 Foundation.	2021
Scholarship	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/	2021
Volunteer	Best academic volunteer at SMAN 1 Magelang.	2020

COMPETITION

1 st Place	National	Ruangguru Champion Season. Academic Olympiad that held by Ruangguru Company , won USD1000.	2019
1 st Place	Regional	Kompetisi Sains Nasional (KSN) , in Physics at first stage. Physics Olympiad that held by Indonesian Ministry of Education .	2019
3 rd Place	National	Tidar Mathematics Competition at Tidar University.	2019
1 st Place	Regional	Lomba Debat Bahasa Indonesia (LDBI) , Best Speaker at first stage. Indonesian Language Debate Contest that held by Indonesian Ministry of Education.	2019
Finalist	National	Undip Mathematics Competition at Diponegoro Univeristy.	2019
4 th Place	National	Academic Quiz Contest that held by Indonesian Ministry of Education.	2018
Finalist	National	Physics Competition at Yogyakarta State University.	2018
Finalist	National	National Physics Competition at Tidar University. Best paper based test score at first stage.	2017

DIGITAL PROJECT EXAMPLE

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

- 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.
- 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.

Gojek Simply Duplicate with Python (<https://github.com/rifqifarhansyah/Tubes-PengKom>)

- This project is associated with Introduction to Computational course of STEI, ITB.
- In this program, we make simply 4 function of Gojek Apps (GoTix, GoRide, GoSend, and GoPay TopUp methods).
- I have contributed to make realization function and gui for GoTix Feature. There are 2 types of User (Consumer and Admin). As admin we can add and remove movie list of the theater, and as a consumer we can buy and choose the seats.

Simple Movie List with HTML, CSS, Javascript (<https://github.com/rifqifarhansyah/FrontEndIntroduction>)

- This project is associated with Google Developer Students Club of ITB.
- In this program, I made a simple movie list that show the description and the rating of that movie.
- I construct the web with about 5 movie categories. This website also show the profile settings of the user, include: user's profile picture, etc. User also can choose between dark or light mode by clicking the toggle in the top of the website.

TECHNICAL SKILLS

ML/AI	OpenCV, Tensorflow and Keras.
Database	Familiar with MongoDB and MySQL .
Cloud Computing	Heroku and Vercel .
IoT	Worked in projects using Arduino IDE .
PL	C/C++, Python, Haskell, Java, Assembly, HTML, CSS, JavaScript , 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

- Haryadi S. Gunawi** Associate Professor, Department of Computer Science, The University of Chicago, haryadi@cs.uchicago.edu
- Ray-Guang Cheng** Distinguished Professor, Electronic and Computer Engineering, NTUST-Taiwan, crg@mail.ntust.edu.tw

I declare the details stated to be true and complete.
(CV updated on October 17, 2022)