

Muhammad Reza Farras

Mechanical Engineer | Backend Engineer

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Bandung, Indonesia

SUMMARY

I'm a fresh graduate from mechanical engineering but also has experience in web development using Golang and JavaScript. While this may seem like an unusual combination, it could be an asset for companies looking for cross-disciplinary skill sets. I'm a quick learner and fast adapt to new environment. My research for thesis is about ROV, in general I need to make a system control for the ROV so it can be used to inspect the surface of hull of a ship automatically.

EXPERIENCE

MT - Backend Engineer

05/2023 - Present

Pt. Kaldu Sari Nabati Indonesia

During this time, I helped SFA team as a backend engineer to built the SFA application. By using Go, I developed a Sales Force Automation (SFA) application tailored to the specific needs of sales teams. Finished more than 100+ tickets in JIRA with status QA Passed. Here's what I do during this phase.

1. Implements clean code, unit test and efficient code as fast as possible during development.
2. Utilizing goroutine to achieve faster data processing.
3. Optimizing Query database to get faster result.
3. Integrating tools such as Redis, RabbitMQ and minIO to support the application business process.
4. Using docker to build standard backend app image for deployment
5. Learn something new about Jenkins to help CI/CD in development phase for efficient development process.

Junior Engineer

09/2022 - 01/2023

Shopee

During this program, I learned about web development in e-commerce environment. These are the skill that I developed:

1. Learn about programming paradigm, OOP, clean code, clean architecture, etc.
2. Developed a high-performance Golang web server utilizing advanced techniques such as HTTP/JWT, set-up tokens, database transactions, Redis caching, and DB indexing.
3. Ensured the server's reliability and quality by performing unit test, implementing cron jobs, and implementing third-party APIs.
4. Successfully designed and implemented client-side rendering web applications using React and Redux as the state management library.
5. Understanding key concepts such as debouncing, purging, sanitizing, lazy loading, and efficient API calls.

Bangkit 2021 Participant - Machine Learning Learning Path

02/2022 - 07/2022

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka

During this program, I learned a lot about machine learning starting from the very basics. I learned about Python, Mathematics for Machine Learning, Data Preparation and Visualization, Build and Deploy model to GCP platform.

Quality Inspection Internship

01/2022 - 02/2022

PT. Astra Daihatsu Motor

1. Completed 80+ quality inspection for goods manufactured vehicle from assembly line per day.
2. Analyzed 200+ samples of defective vehicles to find out the root cause of the problem.
3. Assisted the supervisor to input the data of goods manufactured vehicle from quality line using excel.

Fluid Mechanics Laboratory Assistant
Institut Teknologi Sepuluh Nopember Surabaya

12/2020 - 12/2021

- Responsible to teach the freshmen about fluid mechanics I and II.

Head of Organizational Department
DIMENSI Mesin ITS

05/2020 - 05/2021

- Responsible for conduct training for the staff.
- Responsible for any Internal and External affairs.
- Organizing any internal event in DIMENSI.

EDUCATION

Mechanical Engineering

2022

Institut Teknologi Sepuluh Nopember - Bachelor of Engineering

Top 10 GPA in 7th and 8th semester.

GPA : 3.42/4.00 (156 Credits).

CERTIFICATES

TensorFlow: Data and Deployment

08/2022 - Present

Structuring Machine Learning Projects

04/2022 - Present

DeepLearning.AI TensorFlow Developer

04/2022 - Present

Mathematics for Machine Learning

03/2022 - Present

Google IT Automation with Python

03/2022 - Present

TensorFlow Developer Certificate

10/2022 - 10/2025

SKILLS

Analytical Skills	Advanced	CAD Design	Intermediate
Organizational Skills	Advanced	Flexibility	Advanced
Communication	Advanced	Time Management	Advanced
Programming	Advanced		

LANGUAGES

Indonesia	Native	Japan	Basic
English	Intermediate		