

# Muhammad Rizq Ramadhan

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## Education

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### Universitas Dian Nusantara

2021 - Present

As 5<sup>th</sup> Semester Computer Science Student in *Employee Class* with Cumulative *IPK 3.42*.  
I am a flexible and adaptable individual who can work during the day due to my evening class schedule.

## Projects

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### Animal-Grooming | *Typescript, Express, Prisma (MySQL)*

- Developed a robust RESTful API utilizing TypeScript and Express.js, integrating Prisma for efficient database management.
- Implemented Zod for type validation, ensuring data integrity throughout the application. JWT token authentication for secure admin authorization.

### Text Summarization | *Python, Flask, Javascript, Bootstrap*

- Create summarization from english text into concise bahasa with LLM models and Google-Trans library to translate the text.
- Developed a Flask API backend for processing Large Language Model (LLM) requests through asynchronous Javascript interactions. The front-end employs Bootstrap for a user-friendly interface.

### Image Recognition | *Python, Flask, Javascript, Bootstrap*

- Scraped and organized a dataset image for training and validation with python using bing-image-downloader library.
- Developed a high-accuracy (86%) real-time image recognition system using a TensorFlow-based Convolutional Neural Network (CNN) and Flask deployment in local development.

## Work Experience

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### Calibration Specialist

2021 - 2023

*PT. Suryaraya Rubberindo Industries*

- Proficient in calibrating and testing a wide range of measurement tools, such as dial gauges, pressure gauges, weighing scales, and calipers, ensuring precision within  $\pm 0.5\%$  tolerance.
- Consistently led the team to achieve performance targets with an average rate of 90% on schedule.
- Skilled in repairing and enhancing damaged measuring instruments to reduce downtime and optimize production efficiency.

## Technical Skills

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**Languages** : Python, Go, Javascript, Typescript, Sql  
**Frameworks** : Flask, Gin, Gorm, Express, Bootstrap  
**Libraries** : Pandas, Numpy, Matplotlib, Seaborn