

# MUHAMMAD RISQI FIRDAUS

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## EDUCATION

### Institut Teknologi Bandung

B.Eng, Informatic Engineering

CGPA: 3.41/4.00 for 144 credits

Related courseworks: Data Science and Data Mining, Artificial Intelligence, Machine Learning, Software Engineering.

Bandung, Indonesia

2020 - 2024

## WORK EXPERIENCES

### Professional

#### Huawei Technology Co. Ltd. – Jakarta, Indonesia

Data Analyst Engineer

August 2024 - Now

- Successfully managed deployment of inhouse data warehouse and analytics automation POC using Hadoop and Spark, potential to improve ROI up to millions dollars quarterly.
- Developed an anti-fraud retention ML model, saved up to hundred millions rupiah monthly and was recognized by CTO.
- Produce numerous data pipelines and reports using Hadoop and PowerBi with automatic issue resolution.

#### Kitalulus – Jakarta, Indonesia

Data Analyst Intern

December 2023 - March 2024

- Analyzed user behavior, successfully prevented over 10.000 applicants from fraud and improved recommendation system.
- Evaluated and revamped ETL layer, 20 dashboards, 100 charts query and successfully achieved 90 percent cost reduction.
- Scraped and analyzed data, completed over 60 requests, included investor's report along with others departement.

#### Institut Teknologi Bandung – Bandung, Indonesia

Course Assistant, IF3240 Information System

August 2023 - December 2023

- Assisted 4 teams with up to 20 students from batch 2021 to develop an information system
- Helped up to 20 students to analyze problem and implement system information solution from real companies problem

#### PT Paragon Technology and Innovation – Jakarta, Indonesia

Backend Engineer Intern

Jun 2022 - December 2023

- Decreased manpower for warehouse management by 10 percent per month.
- Decreased cost for supplier and production operational cost up to Rp. 2.5 M per week.
- Responsible for overwriting and optimizing the queries and databases table in postgresql by critical times.

### Organization

#### Himpunan Mahasiswa Informatika ITB – Jakarta, Indonesia

Head of Tech Issue and Exploration Departement

May 2023 - April 2024

- Successfully led campus stage selection which was attended by 103 registrants, and increased by 100 percent YoY.
- Successfully led and mentored a contingent with most finalists in Gemastik 2023, by 22 finalists, increased 57 percent more than last year and finally helped ITB standing as the Second Runner-Up on General Winner.
- Successfully helped up to 500 students afford hard skill bootcamp and career mentorship for landing intership.

## PROJECTS AND PAPERS

**Development of a module for information extraction and curriculum vitae classification for candidate matching using machine learning model (2024)** IEEE Conference paper about information extraction and classification using NER [paper](#)

**RAG for Paper QA Deep Knowledge Model (2024)** Develop RAG for QA about journal paper using LLM and VectorDB [code](#)

**Singapore Policy Analysis and Enhancement (2024)** Analysed PWM policy and improve impact on lowest decile [deck](#)

**Twitch Recommendation System (2023)** Comparing multi method for social media recommendation system [deck](#)

**License Plate Recognition (2023)** Optical character recognition on Indonesia's license plate, using multi model [code](#)

## AWARDS

**[International] Silver Medal, Blue Carbon Counting IPB 2023** runner up by developing carbon calculator using spatial data.

**[National] Honorable Mention, Ristek Datathon 2023** 2nd Best EDA and 3rd Best Feature Engineering.

**[National] Gold Medalist, Data Mining Competition - GEMASTIK 2022** achieving best evaluation among 140 teams.

**[National] Top 10 Kemenkeu Data Qualls 2023** standing as the top 10 among 97 professional teams.

**[International] Top 10 180DC APAC Summit Case Challenge 2023** Asia Pacific Regional scale business case competition.

**[National] Top 10 Jabar Data Viz Festival** selected as top 10 among student category for data visualization competition.

**[National] Top 6th Paragon Hackathon Competition 2022** selected as the top 6 team among 144 participants.

## ADDITIONAL

**Technical skills:** Python (Matplotlib, Pandas, Seaborn, Sklearn, TensorFlow, Keras, NetworkX), Java, Excel ([Linkedin Certification](#)), Advanced SQL by Hackerrank ([Certificate](#)), PowerBI, Tableau, Metabase, Problem Solving Basic by Hackerrank ([Certificate](#)), SpreadSheet (Google Sheet), NoSQL, AWS Athena, GCP BigQuery, Deep Learning, ETL, Computer Vision, NLP, OCR, MLOps, Hadoop, PySpark.