

MUHAMMAD RIDHO HERANOF

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SUMMARY

With one year of hands-on experience, including intensive training at a Career Bootcamp and a current role as a Data Engineer at PT Neural Technologies Indonesia, I bring a versatile skill set in data engineering and full-stack development. In my current position, I optimize PostgreSQL databases for maximum performance, and design ETL processes for various data types, including images, Excel files, and data extracted from APIs and data extracted via SFTP. Proficient in Python, SQL, Spark, Data Warehousing, and Cloud Computing, I've designed end-to-end data pipelines using tools like Airflow, Google Cloud Storage, Dataflow, BigQuery, and Kafka. My expertise includes configuring databases, implementing security settings, and using Apache Airflow for ETL workflows. Collaborating with teams, I align databases with business needs. Alongside a strong academic background in Computer Engineering, I'm proficient in ReactJS, .NetCore, Tableau, Looker, Metabase, Apache Spark, AWS Cloud, Google Cloud Platform, and Kafka. I am eager to contribute my skills to projects requiring a robust blend of data engineering and full-stack development expertise.

EDUCATION

Universitas Andalas 2017-2023 Bachelor of Computer Engineering

Cumulative GPA: 3.28/4.0

Relevant Coursework: Algorithms; Data Structures; Object-Oriented Programming; Database;

WORK AND INTERNSHIP EXPERIENCE

PT. NEURAL TECHNOLOGIES INDONESIA Desember 2023 - Present

Database Engineer

- Optimize and maintain the PostgreSQL database to ensure maximum performance and high availability.
- Configure and manage the database, including security settings and PostgreSQL performance parameters.
- Collaborate with the development and data analysis team to understand business requirements and ensure the database supports them.
- Utilize Apache Airflow to schedule and manage ETL workflows, monitoring and reporting on outcomes.
- Utilized Python and machine learning libraries (NumPy, OpenCV, scikit-learn, Keras) to create recommendation pipelines.
- Collaborated with backend development teams to seamlessly integrate machine learning models into live apps and dashboard web app.
- Utilized Docker and Kubernetes to deploy applications, ensuring consistent and efficient deployment processes.
- Implemented ETL solutions using technologies such as Apache Hadoop, Apache Hive, and Apache Pig.
- Optimized ETL workflows to enhance data processing efficiency and reduce data loading times.
- Develop and optimize data workflows with Apache Spark RDDs, implementing ETL processes to extract, transform, and load data into target systems.

PT Pusat Inovasi Nusantara

April 2023 – November 2023

Data Engineer

- Building an end to end data pipeline using docker containers, airflow, google cloud storage, google big query, apache spark, kafka within 1 month.
- Optimized the ETL and ELT process using airflow by splitting the task into 7 parts to the execution time and task duration
- Building 2 tile dashboard for online payment transaction fraud mitigation purpose using looker studio. Building an end to end data pipeline using docker containers, airflow, google cloud storage, google big query, apache spark, kafka within 1 month.
- Ingested data to data lake in a streaming way and created producer and consumer using apache kafka with python script
- Conduct Class as Teaching Assistant for Data Fellowship 10
- Mentoring 6 students for building data pipeline projects and improve Data Engineer knowledge

Project-Based Internship Data Engineer - Kalbe Nutritionals x Rakamin

Agustus 2023 – September 2023

Data Engineer

- Prepare and cleanse data from various sources using cloud computing platforms like Google Cloud Platform (GCP).
- Assist in designing data warehouse schemas aligned with business requirements.
- Develop and execute ETL/ELT processes to flow data into the data warehouse.

Project-Based Virtual Intern : Fullstack Developer BTPN Syariah x Rakamin

Apr 2023 – May 2023

Fullstack Developer

- Developed web applications using Java, JavaScript, Vue.js, and GoLang for front-end and back-end.
- Designed responsive user interfaces, managed databases with SQL, and conducted code testing and debugging

Coding.Id

Januari 2023 – April 2023

Bootcamp Fullstack Engineer

- Develop and build a dynamic website from scratch using ReactJS for the frontend and .NetCore for the backend (API).
- Collaborate with team members to ensure seamless version control using Git.
- Implement the design provided in Figma to create visually appealing user interfaces.
- Utilize MaterialUI to enhance the website's design and user experience.
- Build RESTful APIs with .NetCore to handle HTTP requests and ensure secure communication between frontend and backend.

Zephrum Consultant Limited

Januari 2022 – Januari 2023

IT Consultant Data Engineer Internship

- Prepare and cleanse data from various sources using cloud computing platforms like Google Cloud Platform (GCP) and Azure .
- Develop and execute ETL/ELT processes to flow data into the data warehouse.
- Collaborated with a team of frontend and backend developers to implement web concepts and designs using HTML, CSS, and JavaScript.
- Contributed in Designing, developing, and testing UI for web applications
- Assist in designing data warehouse schemas aligned with business requirements.

ORGANIZATIONAL EXPERIENCE

HIMATEKOM UNAND

November 2020 – November 2021

Head of External Division

- Responsible for increase average of new high school student to join Computer Engineering.
- Responsible for make a good relationship with other association.

UKOS UNAND

November 2020 – November 2021

Head Of Organisation Division

- Responsible in planning and making variety of ideas for the montly gathering.
- Responsible in organized the association's anniversary event and gathering members of the department consist of 300+ peoples.
- Make a grand design for the annual general meeting of members association.
- Implemented building UKOS Landing page in 3 days

COMMITTEE AND VOLUNTARY EXPERIENCE

Immer

2023 - Present

Front End Developer

- Developed and maintained the user interface and user experience of the Immer platform.
- Leveraged ReactJS to build reusable components and efficiently manage state and data flow.
- Ensured responsive design, cross-browser compatibility, and optimized front-end performance for a seamless user experience.

Core 3D Event(Computer Engineering)

Januari 2019- September 2019

Sponsorship

- Succeeds in managed sponsorship by Ultra Milk and Momo.
- Successfully started a marketing campaign for the event by holding a bazaar with several businesses and generating increased customer and income.

BEM KM FTI UNAND

Januari 2018- September 2018

Head of Event

- Prepared and distributed participants and committees attendance during the event.
- Responsible in making and explained the rundown and event schedule to all committees consist of 50+ peoples.
- Responsible in created the technical guidelines of the event for technical meetings with the entire committees.

SKILLS

Soft Skills: Presentation Skill, Public Speaking, Team Work, Leadership, Critical Thinking

Software Skills: Python, Tableau, Looker, Metabase, Apache Airflow, Apache Spark, AWS Cloud, Google Cloud Platform, Kafka, Google Big Query, Dataflow

Languages: Javascript, HTML, CSS, SQL, C, Python

Frameworks: React JS, Bootstrap, Apache Spark, Apache Airflow, .Net core,

Developer Tools: Git

Database: Oracle, SQL, Postgre, MongoDB, SSMS, SSIS, Dbeaver, pgAdmin, Clickhouse

ADDITIONAL INFORMATION

Project :

- Website Portofolio: <https://portofolio-ridho-ridhohrnf.vercel.app/>
- Data Engineer : <https://github.com/ridhohrnf/finalproject-df10>

Certification:

- SQL (Intermediate) HackerRank: <https://www.hackerrank.com/certificates/iframe/9ccc0aa43471>
- Data Engineer IYKRA: <https://drive.google.com/file/d/1C3GRg8hXr3wfQ7dnsFh-kKYR2lelVtI/view>