

# Hanifan Rizki Nurahman

Greater Jakarta, Indonesia

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## Summary

An enthusiastic individual who is tenacious in what he does. Interested in machine learning, cloud computing, and software engineering.

## Work Experience

### IBM

Jakarta, Indonesia

#### Data and AI Specialist (Full-time)

Jun 2024 – Present

- Develop AI Platform using Langchain for Watsonx, and OpenAI.
- Develop RAG system for chatbot for AI Agent Assistant.
- Present and demonstrate IBM Cloud Pak for Data, to solve client Data Governance issue.

### Jasa Teknologi Informasi IBM

Jakarta, Indonesia

#### Lead Data and AI Services (Full-time)

Nov 2023 – Jun 2024

- Led a team of 7 people for data and AI related solutions, such as data migration, data platform, and machine learning.
- Developed LLM based solution for internal article generation using watsonx.
- Led design thinking AI workshop and initiated AI internal projects.
- Implemented agile value and scrum framework for data, AI & automation teams.

#### Solution Architect Data and Cloud (Full-time)

Jan 2023 – Dec 2023

- Implement IBM Cloud Pak for Data, Watson Knowledge Catalog, Db2, and Data Stage as a unified Data Platform on top of private OpenShift Cluster to solve Data Governance issues in one of the Ministries in Indonesia.
- Led the development team to develop a Web Application solution for a government entity, involved in the system design, prototyping, security measures and presented it to the client.
- Developed and presented proof of value of process mining dashboard using Celonis for a microlending company in Indonesia and identify optimization in their current business process.
- Successfully Migrated 8 Web Applications from IBM Cloud Foundry to on-premise OKD instance.

#### Data Specialist (Full-time)

Aug 2021 – Sep 2023

- Developed OCR solution to automate data extraction using Tesseract, OpenCV, Flask API, and Docker.
- Increase average airflow VPN monthly uptime from 82% to 99% by optimizing the ETL script, and utilize RPA to detect downtime and recovery automatically.
- Designed data governance that covers end-to-end data processes from various data sources to data visualization platforms.
- Speed up data extraction process by 3 times by refactoring ETL script in Python, SQL, MongoDB, Airflow, and ELK stack.

## Education

### Universitas Padjadjaran

Bandung, Indonesia

#### Bachelor of Science in Statistics,

Aug 2017 – Mar 2021

Thesis: Longitudinal Data Analysis Incident Rate of Pneumonia in Toddlers in Bandung City Using Generalized Estimating Equation.

### Google Bangkit Academy

Bandung, Indonesia

Machine learning academy led by Google in collaboration with Gojek, Tokopedia, and Traveloka

Feb 2020 – Jul 2020

Final project: Built a web application to automate image captioning using the TensorFlow library to build CNN and LSTM models using ResNet50 and GloVe neural network architecture for the Flickr8K data set.

## Certifications

**IBM Certified Advocate – Cloud v2**, A professional who can identify cloud infrastructure and services on the IBM Cloud platform. [\[link\]](#)

**Qiskit Localization Contributor - Platinum Level Translator – 2022**, Translated 25,000 words of Qiskit Textbook. [\[link\]](#)

**Enterprise Design Thinking – Team Essentials for AI**, Demonstrated proficiency in using Design Thinking to design AI systems. [\[link\]](#)

**IBM Agile Achiever**, Achieved 100 hours of giveback to the Agile community and 2000 hours of engagement in the Agile team. [\[link\]](#)

## Volunteering Activity

### Google Bangkit Academy

Remote

#### Mentor

May 2022 – Present

Contributed to 4 batches of Bangkit Academy and facilitated 25 teams by sharing knowledge and experience in machine learning implementation, product development, and business value for app development. One of the teams got incubation funding from Google and the Ministry of Research, Technology, and Higher Education of Indonesia.

## Skills

**Programming Library** TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy, Flask, Qiskit, Axum

**Programming Languages** Python, Rust, Golang

**Development Tools** PostgreSQL, MongoDB, ELK Stack, Airflow, IBM Cloud, Docker, OpenShift, Git