# Yusril Albi S.Kom

Indonesia, DKI Jakarta, Jakarta Selatan

yusrilalbi.pro@gmail.com | https://yusrilalbi.my.id

https://www.linkedin.com/in/yusrilalbi |

+6281273032294 | https://wa.me/6281273032294

Area of interest: Back End | Machine Learning | Data Engineer | System Design | Automation

## EDUCATIONS

| | |
|---|---|
| **Universitas Pertamina** | **Jakarta, Indonesia** |
| *Bachelor of Computer Science (Graduating with Cumlaude), Full Scholarship Invitation* | *Aug 2019 - Aug 2023* |

### 🔳 Informatics Competition & Competitive Programming

Competition of Informatics Olympiade at National College Level (Discrete Mathematic, Data Structure and Algorithm, Programming, Combinatorics)

- **Honorable Mention in Hology 4.0**
- **1st Place in Olimpiade Sains Mahasiswa (OSM)**
- **1st Place in Olimpiade Sains dan Statistika Nasional (OSSN)**
- **1st Place in FKIP UISU Science Competition (FUSC)**
- **1st Place in Festival Olimpiade Hari Kebangkitan Nasional (FOHKN)**
- **1st Place in BIMAGE Competition**

## EXPERIENCES (INDUSTRIES)

| | |
|---|---|
| **PT Shopee International - Indonesia** | **Jakarta, Indonesia** |
| *Back End Engineer - Trainee* | *Aug 2023 – Nov 2023* |

Apprenticeship Program from Shopee focused study on back-end development

| | |
|---|---|
| **PT Bank Rakyat Indonesia (BRI)** | **Jakarta, Indonesia** |
| *Data Engineer - Intern* | *Sept 2022 - Mar 2023* |

As a former intern, my roles included programming tasks, authority access as a Data Engineer, and serving as an Infrastructure Analyst, focusing on server issues in the Data Warehouse, Placement at BRI Finance.

| | |
|---|---|
| **Service Education DKI Jakarta** | **Jakarta, Indonesia** |
| *Mentor Informatics* | *Jan 2020 - Present* |

Teach Informatics Olympiade Material (Logic, Discrete Math, Programming, Data Structure and Algorithm, etc.) for Senior High School around DKI Jakarta, Indonesia

## EXPERIENCES (PROJECTS)

**Intelligent Asset Integrity with Hybrid Model**
**Universitas Pertamina – Universiti Teknologi Petronas**
*Machine Learning*

I am assisting a machine learning project by research in the field of oil and gas, where I am involved in making predictions using a hybrid model. This project is also the focus of my thesis. I am exploring the integration of Long Short-Term Memory (LSTM) and Recurrent Neural Network (RNN) within the hybrid model to enhance its predictive capabilities.

**FV Classification**
**Bangkit Academy led by Google**
*Full Stack (Machine Learning, Android, Cloud)*

As a full-stack developer with a specialization in machine learning, this application that transforms fruit and vegetable identification using the prowess of machine learning. This innovative app is fueled by sophisticated Deep Neural Networks (DNN), making it an exceptional tool for effortlessly recognizing and categorizing various produce items.

**E-Commerce (Full Clone)**

**PT Shopee International - Indonesia**
*Project Manager and Back End Engineer*

In the Shopee Trainee Program, I lead the final project and serve as a Back-End Engineer. Specializing in data mining through web scraping, I contribute to the program's success by ensuring robust backend systems. As the project lead, I foster collaboration and guide the team towards innovative and high-performance outcomes.

## DOCUMENTATION

**Title: Algoritme Hibrida Long Short-Term Memory Dan Recurrent Neural Network Untuk Prediksi Data Rentet Waktu**
*Type: Patent/Copyright*

This patent revolves around innovations in the field of time series data prediction algorithms by introducing a hybrid approach that combines Long Short-Term Memory (LSTM) and Recurrent Neural Network (RNN) elements. The algorithm is designed to enhance accuracy and precision in predictions by addressing the complexity of patterns within time series data. Through the integration of LSTM and RNN, this patent may provide an effective solution for identifying and modeling trends, seasonality, and other temporal patterns present in the data.

**Title: Intelligent Asset Integrity with Hybrid Model**
*Type: Journal*

This research explores the application of machine learning, specifically the hybrid LSTM-RNN model, to enhance asset integrity monitoring. Focused on industrial infrastructure, oil facilities, and pipelines, the study aims to improve predictive performance in dynamic environments. The hybrid model, combining LSTM and RNN, proves superior in predicting potential damages, anomalies, and significant changes in asset conditions. Results from 100 iterations reveal its effectiveness, with LSTM-RNN outperforming traditional methods, offering more accurate and reliable predictions for asset integrity management.

## SKILLS

**BE Engineer:** Go (Golang), C++, Gorm, Gin, Redis, Kafka, PostgreSQL, MongoDB, gRPC, protobuf, NoSQL, etc.
**Data Engineer:** SQL Server, SSIS, SSMS, ETL, Grafana, Kibana, Web Scrapping, Database Migration, etc.
**ML Engineer:** Python, NumPy, Pandas, TensorFlow, PyTorch, NLP, LSTM, RNN, DNN, Time Series, etc.
**Other:** Teamwork, Time Management, Teaching, Proactive Learning, Growt**h** Mindset, etc.

## LANGUAGE

| | |
|---|---:|
| **Indonesia** | **Native** |
| **English** | **TOEFL 647 (Listening 48/50, Structure&Written 38/40, Vocabulary 47/50)** |

## CERTIFICATIONS

| | |
|---|---:|
| **Google:** IT Automation with Python, Crash Course on Python, etc. | **Certificates** (02/2022 - Present) |
| **Imperial College:** Mathematics for Machine Learning, etc. | **Certificates** (03/2022 - Present) |
| **DeepLearningAI:** TensorFlow Developer, TensorFlow Data and Deployment, etc. | **Certificates** (04/2022 - Present) |
| **Hackerrank:** Problem Solving Intermediate, SQL Intermediate, etc. | **Certificates** (07/2021 - Present) |
| **Sololearn:** Python for Data Science, SQL, C++ etc. | **Certificates** (02/2022 - Present) |
| **Dicoding:** Machine Learning Mastery Evaluation, Kotlin Foundation etc. | **Certificates** (03/2022 - Present) |
| **GeeksForGeeks:** Python Facts, etc. | **Certificates** (12/2021 - Present) |