

Happy Syahrul Ramadhan

Jakarta | 087716232257 | syahrul19112003@gmail.com | <https://syahrul-seven.vercel.app> | <https://github.com/Happy-Syahrul-Ramadhan>

Data Science graduate from Institut Teknologi Sumatera with a strong focus on **Data Engineering, ETL/ELT pipelines**, **data lakehouse architecture**, and **data marts**. Experienced in **developing a Medallion Architecture-based data mart system** as part of a bachelor’s thesis to integrate student administrative service data at the Faculty of Science, ITERA, **achieving 100% data loading and 100% data validation throughout the ETL process**. Proficient in **Python, SQL, PostgreSQL, MySQL, Apache Spark, and Apache Airflow** for data processing, integration, and visualization through analytical dashboards.

Education

Institut Teknologi Sumatera Bachelor of Data Science GPA: 3.00/4.00	South Lampung August 2022 – June 2026
--	--

Certifications & Awards

- Top 6 - National Student Skills Competition (LKS)** – Cyber Security
- Professional Certification (BNSP)** – REKAYASA PERANGKAT LUNAK - KKNi LEVEL II
- ASEAN Data Science Explorers 2023**
- Data Science Trainee Certification** – PUSDATIN, Ministry of Primary and Secondary Education
- Certificate of Achievement** – Bank BTPN Syariah Data Engineer Project-Based Internship Program
- Intellectual Property** – Smart Paddy Phenology Classification Application
- Intellectual Property** – Sentinel-1 Polarization Extraction Dataset for Rice Phenology Analysis in Indramayu Regency, 2024

Work Experience

Jatis Mobile Data Engineer - Intern	South Jakarta Sep 2026 – Present
<ul style="list-style-type: none">Developed Rust-based ETL pipelines to integrate and map data across MySQL, MongoDB, and PostgreSQL, and load the processed data into a SQL Server data warehouse.Implemented centralized log management using Apache Kafka, integrated Change Data Capture (CDC) with Debezium, and developed real-time ETL monitoring dashboards in Grafana.	
Pusdatin - Ministry of Primary and Secondary Education Data Science Trainee	Remote May 2026 – August 2026
<ul style="list-style-type: none">Applied an end-to-end data science workflow covering data preprocessing, analysis, modeling, evaluation, and visualization.Built a spatial analytics dashboard using statistical methods to monitor PIP recipient targeting, reducing estimated analysis time by 70%.	
Insightera - Institut Teknologi Sumatera Data Engineer - Intern	Bandar Lampung Jan 2026 – May 2026
<ul style="list-style-type: none">Designed a data mart using Five-Step Methodology and Medallion Architecture (Bronze-Quarantine-Silver-Gold) to integrate and standardize student administrative service data.Built an automated ETL pipeline with Apache Airflow and PostgreSQL, achieving 100% ETL success rate, and developed an Apache Superset dashboard for service analytics.	
National Research and Innovation Agency (BRIN) Data Science Research Assistant - Intern	Bandung June 2025 – August 2025
<ul style="list-style-type: none">Processed large-scale spatial data from satellite imagery to support geospatial analysis and rice phenology classification.Developed an end-to-end machine learning workflow for rice phenology and land cover classification using Sentinel-1 radar imagery and Sentinel-2 optical imagery.Achieved 87.26% accuracy and an 83.61% Kappa score using the Random Forest algorithm.Applied MLOps practices to deploy the model and integrated the results into a web-based application with interactive maps using the Google Earth Engine API.	
Bank BTPN Syariah x Rakamin Academy Project-Based Virtual Intern: Data Engineer	Remote January 2024 - February 2024
<ul style="list-style-type: none">Analyzed credit card customer data for customer segmentation and credit risk assessment using SQL Server, T-SQL, SSIS, and ETL concepts.Explored customer patterns based on demographics, income, transactions, credit limits, and inactivity.	

Organizational Experience

Data Science Student Association Staff Research and Development	Institut Teknologi Sumatera June 2023 – January 2024
<ul style="list-style-type: none">Conducted surveys and analyzed student feedback on the most challenging courses and learning difficulties.Developed the HMSD ITERA website as an information platform and publication channel for organizational articles.Monitored website performance using Google Analytics, achieving more than 1,000 article visits.	

Areas of Interest: Data Engineer, Database Modelling, Database Engineer, Big Data Engineer
Technical: Python, SQL, Spark, Hadoop, PostgreSQL, MySQL, SQL Server, ClickHouse, Data Modeling, ETL/ELT Pipeline, Indexing, Apache Airflow, SSIS, Docker, Git, Linux, Big Query, Apache Superset, Looker Studio, MLOps.