

Joni Syofian

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PROFESSIONAL SUMMARY

Data Engineer / Technical Consultant with 3+ years of experience building and maintaining ETL pipelines, optimizing SQL queries, and improving data quality for reporting and analytics. Hands-on with Python, Impala, PostgreSQL, MySQL, HBase/Phoenix, Hive, PySpark, Power BI, and IBM DataStage. Experienced translating business requirements into reliable datasets, automations, dashboards, and validation processes for data-driven decision-making.

CORE SKILLS

- Data Engineering: ETL/ELT development, data integration, pipeline automation, schema design
- Data Quality: data profiling, cleansing, validation rules, anomaly detection, root cause analysis
- Data Warehouse: dimensional modeling, star schema
- Big Data: Apache Phoenix, Apache HBase, Apache Hive, Apache Impala, PySpark
- Analytics & BI: Power BI, Tableau, exploratory data analysis, dashboard development
- Tools: SQL, Python, IBM DataStage, Git, GitHub, MATLAB
- Collaboration: stakeholder communication, documentation, testing, business requirement alignment

PROFESSIONAL EXPERIENCE

Technical Consultant / Data Engineer - PT. IDX Consulting | Jakarta, Indonesia | Mar 2023 - Present

- Supported the Bank Indonesia Antasena project by modifying ETL pipelines for migration from Kudu/Apache Impala to HBase/Apache Phoenix.
- Built and maintained ETL workflows for large-scale data migration and downstream reporting datasets.
- Developed and optimized SQL queries across Impala and Phoenix to support ad hoc reporting and business analysis.
- Automated recurring data processing and validation tasks with Python, reducing manual effort by 50%+.
- Monitored data quality, investigated inconsistencies, performed root cause analysis, and documented ETL mappings and validation rules.
- Collaborated with business users and analysts to translate reporting requirements into reliable data solutions.

Research Assistant - Bandung Institute of Technology | West Java, Indonesia | Jul 2022 - Dec 2022

- Processed, cleaned, and analyzed research datasets using Python for visualization and insight generation.
- Prepared analytical outputs and data-driven reports to support research publications.
- Assisted statistics courses as Assistant Lecturer and Practical Assistant for three consecutive semesters.

EDUCATION & TRAINING

Bachelor of Science - Bandung Institute of Technology | Jul 2018 - Oct 2022

Data Science Program - Rakamin Academy | Jul 2022 - Nov 2022

PROJECTS & ACHIEVEMENTS

- [Selected as a finalist](#) to pitch a dashboard concept for analyzing ocean wave and wind conditions in Indonesia Fisheries Management Area 711; related [publication](#) available.
- Built an interactive [EDA dashboard](#) for CSV analysis using Python and Streamlit; additional work is available in the [portfolio](#).