

Tri Juhari

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Professional Experience

PT Sharing Vision Indonesia - Data Engineer

Oct 2021 – Present

- Embedded on-site at Bank Rakyat Indonesia (BRI), Finance / Enterprise Data Management Division — Indonesia's largest financial institution by assets (\$110B+), serving 120M+ customers.
- Supported a regulatory-driven credit datamart: contributed to the loan/credit datamart computing carrying value, EIR, and ECL for BRI's overseas units (Taipei, New York, Cayman Islands) — part of the response to an OJK audit finding on inconsistent ECL methodology between Head Office and overseas branches.
- Owned the DWH ingestion & reporting pipeline: built SSIS-based ETL pipelines processing GL data received from the SAP S/4HANA team (incl. historical GLHIST migration) into the enterprise DWH via automated SFTP transfers, powering Enterprise Trial Balance reporting across national and overseas (UKLN) business units.
- Established the division's SSRS reporting standard: authored the report template/watermark format later adopted by other teams, and developed dozens of SSRS reports covering treasury (trading limit monitoring, mark-to-market, capital gain per dealer) and finance KPI reporting — delivering near real-time visibility via a 10-minute refresh cycle for treasury desks.
- Engineered the data pipelines behind income allocation reporting — implementing distributed fee-based income (FBI) and FTP-based retail interest allocation models designed by the Finance team — feeding daily/monthly treasury income reporting used by senior management.
- Improved pipeline reliability & performance: designed fault-tolerant, metadata-driven SSIS frameworks and re-engineered ETL package execution for faster, more efficient run times; optimized stored procedures and indexing strategies to speed up report generation across dozens of mission-critical reports, significantly reducing pipeline failures and manual maintenance effort.

MizanStore.com - Research Internship

Sep 2020 – Feb 2021

Indonesia's leading e-commerce platform for book retail and digital publishing distribution.

- Customer Growth Analytics: Developed RFM (Recency, Frequency, Monetary) models on transactional datasets to identify high-value customer segments, driving data-driven marketing and retention strategies.
- Marketing Intelligence: Built automated CRM dashboards using SQL, R, and Python to visualize predictive insights, enhancing customer targeting efficiency and long-term Customer Lifetime Value (CLV).
- Data Modeling: Translated complex transactional data into actionable executive insights, supporting strategic decision-making for marketing and customer engagement initiatives.

Education

Gunadarma University - Master of Management Information System

Oct 2019 - Apr 2021

- CGPA: 4.00/4.00

Gunadarma University - B. Eng in Informatics

Sep 2015 - Sep 2019

- CGPA: 3.79/4.00

Projects & Achievements

SWIFT Intelligence Hub & Reporting Tool — [swiftdocs.pythonanywhere.com](https://swift.docs.pythonanywhere.com)

Built an enterprise-grade web portal for parsing, visualizing, and managing SWIFT message types (MT101–MT950), featuring a real-time AML/compliance screening engine (OFAC, UN, EU sanctions checks), a gpi transaction tracker (UETR hop tracing, fee/FX calculation), and a tiered reconciliation simulator for matching payment messages against bank statements. Includes a GDPR/UU PDP-compliant client-side data anonymizer and a full admin CMS for managing SWIFT tag data.

SSIS Lineage & Modernization Hub — github.com/trijuhari/SSIS-Lineage-HUB

Developed an offline-first data lineage and modernization engine that parses legacy SSIS packages (.dtproj/.dtsx) and auto-generates Modern Data Stack code (Airflow DAGs, dbt models, Python ELT scripts). Built interactive Cytoscape-based lineage graphs for column/table-level impact analysis, plus multi-format export (Neo4j Cypher, OpenLineage, Mermaid) — enabling teams to migrate legacy ETL to modern pipelines with zero cloud dependency.

Astronomer Certification for Apache Airflow 2 Fundamentals

Astronomer Certification: DAG Authoring for Apache Airflow 2

Digital Talent Scholarship Microsoft Fundamentals: Azure, Data, AI, Power Platform

- AZ-900 Microsoft Azure Fundamentals Certificate (Score: 747/1000)
- AI-900 Microsoft Azure AI Fundamentals Certificate (Score: 828/1000)

Databricks SQL Analyst

- Fundamental concepts Databricks Lakehouse, Apache Spark SQL, Databricks SQL
- Associate SQL Analyst Accreditation

Skills

Languages: Python, R, SQL, PHP, JavaScript, HTML/CSS, Rust

Technologies: SQL Server, MySQL, PostgreSQL, GitHub, Informatica, SSIS, SSRS, AWS, Kafka, Tableau, Apache Airflow, dbt, Supabase

Skills: Docker, Hadoop, ETL Optimization, Data Modeling, Real-time Streaming, Web Scraping, Data Lineage & Migration, AI-assisted Analysis (Gemini/LLM API)