Moch. Farros Fatchur Roji

IT & Data Specialist

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Summary

Experienced Data Engineer with three years at PT Multipolar Technology Tbk (MLPT), specializing in scalable ETL pipelines, data warehouse/data platform development, and database optimization. Delivered BI-ready datasets and automated workflows that improved reporting and operational efficiency.

Currently working at PT Tripower Solar Nusantara as an IT Specialist, handling infrastructure, product databases, and website systems—strengthening my understanding of end-to-end data operations.

With a Statistics background from Institut Teknologi Sepuluh Nopember, I bring strong analytical skills, solid data modeling fundamentals, and a practical problem-solving approach to building reliable, business-aligned data solutions.

Experience :

Data Engineer – PT Multipolar Technology Tbk, Tangerang | Nov 2019 – Apr 2023

Key Skills & Tools:
ETL Development · Data Warehousing · SQL Optimization · PostgreSQL · SQL Server · NoSQL · Talend · SSIS · Data Modeling · Data Integration · BI Tools (IBM Cognos, DevExpress, Tableau, Power BI, Superset) · ASP.NET · Python · R

Responsibilities & Contributions:

- Designed and developed the Data Platform using PostgreSQL, SQL Server, and NoSQL to support scalable Data Warehouse architecture.

- Built and maintained ETL pipelines using Talend and SQL Server Integration Services (SSIS) for data extraction, transformation, loading, and data quality validation.

- Implemented data modeling (star schema & relational structures) and executed SQL performance tuning to improve query efficiency and reporting performance.

- Delivered Business Intelligence (BI) solutions using IBM Cognos, DevExpress, Tableau, Power BI, and Superset, enabling automated reporting and dashboarding.

- Developed internal reporting applications using ASP.NET + DevExpress, providing a centralized web-based reporting system for internal stakeholders.

- Performed Exploratory Data Analysis (EDA) and predictive analytics using Python and R, including classification, clustering, and forecasting methods.

- Managed data validation, data cleansing, and data integration workflows to ensure accurate and consistent data pipelines.

Highlighted Projects:

- Designed and implemented ETL workflows and Data Warehouse structures to support analytics and business intelligence needs.

- Optimized SQL queries, indexing, and table structures to enhance ETL and reporting performance.

- Developed an internal web-based reporting system integrating ASP.NET and DevExpress.

- Conducted data analysis using Python/R, including preprocessing and basic machine learning implementation.

BI Antasena & OJK OBOX Projects:

- Developed ETL pipelines and data transformation logic for financial reporting systems.

- Created data mapping, improved data consistency, and integrated datasets into the Data Warehouse for dashboard and analytics usage.

IT Specialist – PT Tripower Solar Nusantara, Yogyakarta | Apr 2023 – Present

Key Skills & Tools:

IT Infrastructure Management · VPS Administration · Server Monitoring · Internal Hosting · Email Server Management · Cybersecurity Basics · Firewall & Security Configuration · Web Development & Maintenance · WordPress / CMS · Domain & DNS Management · Networking Fundamentals · Database Management · E-commerce Product Database · Troubleshooting & Technical Support · IT Asset Management · Documentation

- Supporting company IT infrastructure including VPS servers, internal hosting, corporate email systems, and security configurations.

- Developing and maintaining the aesi.or.id and solar-nusantara.id websites.

- Handling and organizing product databases for e-commerce operations, including data updates, structure management, and integration needs.

- Providing onsite technical support and ensuring smooth IT operations across departments.

Honors & Awards :

Grand Finalist – Data Mining GemasTIK 11th
Ministry of Research, Technology and Higher Education Indonesia | Nov 2018
Implemented data mining techniques using the **K-Nearest Neighbors (KNN)** algorithm to classify journal series data. Advanced to the grand final to present analytical findings.

Digital Talent – Internet of Things Scholarship Awardee
Ministry of Research, Technology and Higher Education Indonesia, in collaboration with Institut Teknologi Sepuluh Nopember | Aug 2019
Studied foundational IoT concepts, data communication mechanisms, and hands-on implementation. Completed a final project presentation as part of the program.

1st Winner – Challenge 3 Data Waste Hackathon
SecondMuse | Oct 2019
Developed **"YoWaste"**, a data-driven application providing waste-price information for Surabaya residents, enabling data-based insights and predictions related to municipal waste.

Finalist – Open Covid-19 Completion Competition with Artificial Intelligence
BISA AI | May 2020
Authored a research analysis using **social network analysis (SNA)** on Twitter to identify significant topics and behavioral patterns related to Covid-19.

Certificates

Cybersecurity (2025 → 2024)

2025 – Cyber Security 101 Certificate, TryHackMe – *ID: THM-USGATTGRLI*
2025 – Introduction to Cyber Security, TryHackMe – *ID: THM-QRGNXAUUOF*
2025 – Cybersecurity for Small and Medium Size Business, EC-Council – *ID: 385399*
2025 – Introduction to Cybersecurity, TryHackMe – *ID: a26328ab-abab-403d-80c1-c0be6232eb83*
2025 – Pre Security Certificate, TryHackMe – *ID: THM-OA1PBQOMP7*
2024 – Introduction to Information Security, Cyber Academy Indonesia – *ID: PKMI01103240785*

Artificial Intelligence & Prompt Engineering (2024)

2024 – Foundations of Prompt Engineering, AWS – *ID: 17763_5_5959890_1721806612*
2024 – Introduction to Generative AI, AWS – *ID: 17176_5_5959890_1721791332*
2024 – Developing AI Systems with the OpenAI API, DataCamp – *ID: 33923557*
2024 – ChatGPT Prompt Engineering for Developers, DataCamp – *ID: 33849825*
2024 – Working with the OpenAI API, DataCamp – *ID: 33646951*

Cloud Computing (2022 → 2020)

2022 – Microsoft Certified: Azure Fundamentals – *ID: L109-3363*
2020 – Cloud Computing Basic (Cloud 101), LearnQuest – *ID: NJWBFGLHAQ8R*
2020 – Getting Started with AWS Machine Learning – *ID: G9HALD9XG2CG*

Data Engineering, SQL & Programming (2022 → 2020)

2022 – SQL (Basic), HackerRank – *ID: 0097302c1bec*
2020 – Introduction to SQL, DataCamp – *ID: 12454415*
2020 – Introduction to Shell, DataCamp – *ID: 13968483*
2020 – Introduction to R, DataCamp – *ID: 7070609*
2020 – Introduction to Python, DataCamp – *ID: 7648912*
2020 – Data Science Math Skills, Duke University – *ID: W4GRV9ZAEUJQ*
2020 – Introduction to Data Science with R, DQLab – *ID: DQLABBGINRJLPRRN*

Web Development (2024)

2024 – Responsive Web Design, freeCodeCamp – *ID: farros*

Digital Marketing (2020)

2020 – The Fundamentals of Digital Marketing, Google – *ID: C5GHCTT2H*

Trainings:

- AZ-900 Microsoft Azure Fundamentals, Tangerang, 2021
- Fullstack Developer Bootcamp by Praxis Academy, Surabaya, 2019
- Data Engineering Bootcamp by PT Multipolar Technology, Surabaya, 2019
- Fresh Graduate Academy Internet of Things by Digital Talent Shcoolarship, Surabaya, 2019
- R Programming for Data Science by idata1011, Surabaya, 2019