Yurio Windiatmoko

Data Engineer , Ai Engineer , Lecturer , Junior Fullstack WebDev , Product Manager

📍 Karanganyar, JT 57716   🔗 [Bold Profile](#)

📞 +6282311625084

✉ yuriowindiatmoko@gmail.com

🔗 Websites, Portfolios, Profiles

- www.linkedin.com/in/yuriowindiatmoko-347142156
- https://github.com/Yuriowindiatmoko2401

Versatile and results-driven data engineer specializing in data architecture, ETL pipelines, and scalable data solutions. Extensive experience in cloud-based data engineering (AWS, GCP, Azure), real-time processing (Apache Kafka, Spark), and AI-driven analytics. Expertise lies in designing efficient and reliable data pipelines to power intelligent systems.

💼 Work History

2023-01 - 2024-08 **Associate Product Manager**

eFishery, Bandung, Jawa Barat

- Successfully launched 3 AI-powered products: Pond Detector, Any-OCR, Vibrio Counter.
- Developing ETL code for Data Wrangling Pond Deduplication, improving data accuracy.
- Implementing PostGIS to enhance Map Object in Pond Detector, optimizing geospatial analysis.
- Developing ETL code for Reverse Geocoding In-house to replace Google Maps API for consistent pond addresses.

2023-11 - 2023-12 **Lecturer (Short Semester Program)**

UIN Sunan Kalijaga Yogyakarta, Yogyakarta, Indonesia

- Taught courses on **Data Visualization**, **Advanced Query Analysis**, and **Reporting**.
- Guided students through real-world projects such as **Traffic Analysis** and **Fraud Detection**.
- ☑ **Key Achievements:**
- ✔ Enhanced student proficiency in **data-driven business strategies**.
- ✔ Delivered lectures with a focus on **Data - AI and its business applications**.
See details here: https://l1nq.com/slRaD

2022-08 - 2022-12 **Artificial Intelligence Engineer**

eFishery, Bandung, Jawa Barat

- Developed Aquacapture, a satellite-based pond monitoring system, improving efficiency by 40%.

- Built a self-service OCR platform for document processing, automating 80% of manual entry tasks.

2021-06 - 2022-07   ### Data Engineer

eFishery, Bandung, Jawa Barat

🚀 **Key Contributions:**
- Designed & optimized **ETL pipelines** for real-time aquaculture data processing.
- Built **data lakes & warehouses** using **Google BigQuery, Postgresql Citus, S3 and GCS** to support AI models.
- Improved **data ingestion from IoT devices & satellite imagery** (used for pond detection).
- Automated **data pipelines with Apache Airflow & dbt**, reducing manual data wrangling by 60%.
- Worked with **SQL, Python (Pandas, PySpark), and cloud services (AWS S3, GCP Cloud Functions)**.
- Integrated **Kafka for real-time streaming** to process high-frequency sensor data and CDC.
- Developed **machine learning feature stores** to improve AI-powered risk diagnostics.

2021-08 - 2021-09   ### Data Engineer

Emtrade, Surakarta (Remote)

- Designed **real-time data ingestion CDC and Batch** using **Kafdrop & Airflow**, ensuring low-latency streaming.
- Created **Python-based automation scripts** for data validation & pipeline monitoring.

2021-08 - 2021-09   ### Data Engineer

PT. Sigma Cipta Caraka (Telkomsigma), Jakarta, Indonesia (Remote)

Key Contributions:
- Developed **ETL pipelines** to process unstructured data.
- Built **data warehouse solutions** using **Postgresql , Metabase & Redash** for reporting & analytics.
- Optimized **SQL queries & indexing strategies**, improving query performance by **50%**.

2019-05 - 2021-06   ### Data Engineer

Warung Pintar, Greater Jakarta Area

🚀 **Key Contributions:**
- Architected **big data pipelines** for customer & transaction analytics in retail tech.
- Implemented **data lake solutions** with **Google Cloud Storage & BigQuery**.
- Developed Big Data **batch & real-time data processing pipelines** using **Airflow, dbt, and Spark**.
- Improved **ETL job efficiency** by optimizing **PySpark transformations & parallel processing**.
- Integrated **external APIs & web scraping pipelines** for market intelligence dashboards and Digital Marketing.

2020-05 - 2020-07   ### Artificial Intelligence Engineer

Central Data Science - UII, Yogyakarta, Daerah Istimewa Yogyakarta

- Develop AI models Object Detection for Nestle Shelf Project counter

2019-01 - 2019-04   **Data Engineer**

Kitabisa.com, Greater Jakarta Area

🚀 **Key Contributions:**
- Built **ETL pipelines for donation transaction data**, ensuring fast & accurate reporting.
- Designed **data models & schemas** for scalable storage & retrieval.
- Optimized **Python-based data processing jobs**, reducing processing time by 40%.

2018-08 - 2018-10   **Data Scientist**

AiSensum, Jabodetabek

- Big Data & Data Scientist Consultant using Spark and Sparklyr

2017-11 - 2018-07   **Data Scientist**

PT eBdesk Teknologi, Jabodetabek

- Implemented **Natural Language Processing (NLP) pipelines** for social media analytics.
- Built **big data infrastructure** for social network analysis using **Hadoop & Spark**.
- Developed **automated data pipelines** for sentiment analysis dashboards.

2014-08 - 2017-11   **Topografi Planner**

PT. BANGUN NUSANTARA ENGINEERING, Bandung dan Sekitarnya, Jawa Barat

- Minihydro Consultant

🏹 Skills

Skills - Data Engineering
- ☑ **Programming & ETL:** Python (Pandas, PySpark, FastAPI), SQL, dbt
- ☑ **Big Data Processing:** Apache Spark, Kafka, Airflow
- ☑ **Data Warehousing:** Google BigQuery, Snowflake, AWS Redshift
- ☑ **Cloud Platforms:** AWS (S3, Glue, Athena), GCP (BigQuery, Cloud Functions), Azure
- ☑ **Streaming & Batch Processing:** Kafka, Spark Streaming, Airflow
- ☑ **Machine Learning Feature Engineering:** ML Data Pipelines, Feature Stores

Skills - in General and Soft Skills
- Generative AI Tools
- Front-End Development
- Stakeholder Management
- Product Management - Roadmap Creation
- Design Thinking
- Analytical Thinking
- ETL Development
- Python Programming

🎓 Education

2025-03 - 2028-03   **Ph.D.: Informatics**
Universitas Amikom - Yogya, Indonesia
ON GOING - With Dissertation Title
Generative Model for High Resolution Landslide Susceptibility Maps in Indonesia

2019-01 - 2022-01	**Master of Computer Applications - MCA: data scientist**
	Universitas Islam Indonesia - Yogyakarta, YO
2023-09 - 2023-10	**No Degree: Business Administration**
	🎓 *Mini-MBA Certification - Bandung*
2009-01 - 2013-01	**Gelar Sarjana: Matematika**
	Universitas Padjadjaran (Unpad) - Bandung, JB

Certifications

Developer Generative AI - Alibaba Cloud

Fullstack Webdev Bootcamp

Product Management - Real World Simulation

Mini MBA

Data Science on the Google Cloud Platform

Languages

Indonesia

Inggris

Publications

Publication
- Mi-Botway: a Deep Learning-based Intelligent University Enquiries Chatbot
- Optimizing Planning Service Territories by Dividing Into Compact Several Sub-areas Using Binary Kmeans Clustering According Vehicle Constraints
- Image Captioning with Attention for Smart Local Tourism using EfficientNet
- Boarding House Renting Price Prediction Using Deep Neural Network Regression on Mobile Apps
- Set Best Threshold in Vehicle Routing Problem for Better Utilization

Key Projects & Intellectual Property (HAKI) Notable Projects HAKI
- **Aquacapture**: Developed algorithms for satellite imagery to monitor aquaculture activities.
- **Self Service OCR platform:** Intuitive Solution designed to empower business and individual to efficiently accurately perform OCR tasks.
  https://issuu.com/efishery_ai/docs/efishery_sustainability_report_2023 on page 44-45

- **Sistem Konsultasi Berbasis Kecerdasan Buatan dan Model Bahasa Besar untuk Budidaya Ikan dan Udang Terintegrasi dengan IoT**
  (Application ID: S00202407549)
  (https://pdki-indonesia.dgip.go.id/detail/417f43cf55bafb6218482a55db6ab33e60c858715ef53cc58cda684de87)
- **Sistem Deteksi dan Analisis Kolam Ikan dan Udang Menggunakan Citra Satelit**
  (Application ID: S00202407561)

(https://pdki-
indonesia.dgip.go.id/detail/a7a0ebaeacea2270449b882974c616d0a6c5498a8a4a6b50b710ff5bd
)