Julius Maliwat

Data Engineer

3288499739

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Milan, Italy

GitHub

Italian Citizen

SKILLS

Programming & Development: Python, SQL, JavaScript, R, Git

Data Engineering & Cloud: Spark, AWS, Databricks

Data Science, AI & Analytics: TensorFlow, PyTorch, scikit-learn, pandas, Tableau

LANGUAGES

Italian ●●●●●

English ●●●●○

Tagalog ●○○○○

INTERESTS

Passionate about fitness, basketball, chess, and anime. I play basketball on a DR4 team, do bodybuilding, and occasionally go bouldering; I also enjoy trekking. My favorite anime is One Piece, and I play electric guitar in my church band.

WORK EXPERIENCE

Quantyca, *Data Engineer*
06/2025 – Present | Monza, Italy
Migration of the data platform from AWS to Databricks for Autostrade per l'Italia, contributing to the definition of the new platform.

- Adopt a declarative approach based on the Open Data Contract Standard to manage and validate data flows
- Develop Python utilities and standard Databricks blueprints, managing platform infrastructure through Terraform

Softlab, *Data Engineer*
06/2024 – 06/2025 | Milan, Italy
Built ETL pipelines for Fastweb on AWS to support reporting and dashboards.

- Worked with client technical stakeholders to translate requirements into Spark pipelines on network KPIs
- Pipelines were code-reviewed and validated by the client's Data Science team, meeting their quality standards

KPMG, *Software Engineer*
07/2023 – 06/2024 | Milan, Italy
Part of an internal team building tools to support audit activities.

- Developed data preprocessing pipelines on accounting data for internal analysis and reporting using Python
- Implemented web user interfaces using JavaScript/React

EDUCATION

M.sc in Data Science, *University of Milano-Bicocca*
10/2023 – 10/2025
Thesis: *Design and Evaluation of Multi-Camera Multi-Object Tracking Pipelines in Calibrated Environments*
Final mark: 110/110 with honors

B.sc in Statistics, *University of Milano-Bicocca*
10/2020 – 07/2023
Thesis: *A Machine Learning Application for Meta-Analysis in Clinical Settings*
Final mark: 110/110 with honors

PROJECTS

Deep Learning for Audio, Vision & Image Retrieval

- Built deep learning models for sound classification with CNNs (YamNet) and Transformers (AST)
- Enhanced low-light object detection, improving YOLOv8 performance with CLAHE preprocessing.
- Optimized vehicle image retrieval, evaluating Proxy Loss and Center Contrastive Loss for feature learning.

Unveiling META Champions in League of Legends

- Built an automated pipeline to identify META champions in League of Legends, integrating web scraping and API data for competitive insights
- Designed a relational database in MySQL to store and analyze champion performance data, improving query efficiency and strategic insights on champion viability.