

Giulio Quaglia

Cloud Data Engineer

 BiomedicalGeek

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RECENT WORK EXPERIENCE

CLOUD DATA ENGINEER | PROMETEIA

January 2026 -- Current | Bologna, Italy

- Design and implement scalable data pipelines using Azure Data Factory and Databricks for financial analytics use cases.
- Collaborate with software engineers to develop production-grade solutions in Python for cloud-based data processing.
- Develop and optimize data models, ensuring efficiency, reliability, and regulatory compliance in banking sector applications.

DATA ENGINEER | ICONSULTING

December 2023 - January 2026 | Bologna, Italy

- Gather and analyze requirements, design and implement ETL pipelines for data warehousing solutions to address specific business needs.
- Diagnose and resolve data stream related issues, enhance system reliability and overall performance.

Complete work experience.

PROJECTS

STATISTICAL MODEL VALIDATION FOR ANTI-FRAUD SYSTEMS | PYTHON,

PYSPARK, DATABRICKS, AZURE DATA FACTORY

January 2026 -- Ongoing | @Prometeia for ERSTE Group

- Develop robust Python code for validation and monitoring of statistical fraud detection models.
- Automate data quality checks, model control processes, and exception reporting pipelines.
- Collaborate with risk analysts and data scientists to ensure reliability and compliance of model monitoring systems.

SAP ETL TO AZURE MIGRATION AND BI DASHBOARD | AZURE DATA

FACTORY, DATABRICKS, SPARK SQL, POWER BI, SAP HANA, SAP DATASERVICES, SAP BO

April 2025 - November 2025 | Bologna @Iconsulting for Hera spa

- Improved scalability and reduced processing times by migrating SAP ETL pipelines to Azure Data Factory and Databricks, ensuring seamless SQL-to-Spark SQL translation.
- Delivered a Power BI dashboard providing unified insights on economic, financial, weather, and internal KPIs, enhancing decision-making.

MULTI-AGENT CODELLAMA | PYTHON, HUGGING FACE TRANSFORMERS,

CODELLAMA-7B/13B, DOCKER, UNIT TESTING

April 2024 | @Personal Project

- Built an autonomous code generation and validation loop with LLM agents (Developer-Reviewer), integrating unit tests, feedback, and deterministic sampling to ensure quality.
- Ensured portability and reproducibility with an offline-ready Docker stack, optimized for CPU-only execution and efficient resource management.

UNCERTAINTY QUANTIFICATION METHOD FOR DEEPSLEEPNET LITE |

PYTHON, TENSORFLOW (CNN), COLAB, LATEX

June 2022 - January 2023 | Lugano @Meditech

- Developed DeepSleepNetLite neural network with uncertainty quantification for sleep stage classification. Complete thesis.
- Enhanced prediction reliability and confidence for medical decision-making introducing novel uncertainty quantification method.
- Conducted research, coding, and validation for healthcare application.

Complete list of projects.

SUMMARY

 AI and Data Engineer specializing in cloud-based data applications in the finance sector. Currently working at Prometeia on scalable pipelines and statistical model validation using Azure and Databricks.

 Via Armando Diaz, 11, San Benedetto Del Tronto (AP), 63074 Italy

 1 June 1992

 English: IELTS B2, Italian: mother tongue.

SKILLS

PROGRAMMING

Proficient:

Python • PL/SQL • Spark SQL

Experienced:

C/C++ • R • PostgreSQL • MySQL

LIBRARIES / FRAMEWORKS

PySpark • TensorFlow • PyTorch • Scikit-Learn • OpenCV • MNE • NumPy • Pandas • Matplotlib • Seaborn • PyTest • BeautifulSoup • Selenium • Requests

BI / FRONT-END TOOLS

SAP BO • MicroStrategy • Power BI

ETL / ELT TOOLS

Azure Data Factory • SAP Data Services • IBM InfoSphere DataStage • Databricks

CLOUD PLATFORMS

Amazon Web Services (EC2, ECS, S3, Lambda, Event Bridge), Azure (Data Factory, Blob Storage, Databricks)

OTHER

Docker • Git • Kubernetes • Bash scripting • Data Modeling • Data Integration • Data Warehousing

EDUCATION

POLITECNICO DI TORINO

MASTER'S IN BIOMEDICAL ENGINEERING

AI and Data Orientation

December 2022 | Turin, Italy

110 / 110

UNIVERSITÀ POLITECNICA DELLE MARCHE

BACHELOR'S IN BIOMEDICAL ENGINEERING

March 2020 | Ancona, Italy

95 / 110

INTERESTS AND ACHIEVEMENTS

Endurance athlete and triathlete, with a passion for discipline, goal-setting, and continuous improvement. Active contributor to open-source data projects and machine learning communities.