

Jibril Gueye

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PROFILE

I'm an MSc student in Computer Science and Engineering at DTU and a Software Engineer with 2 years of professional experience. My focus lies in scalable backend architectures, LLM integration, and web development. I'm passionate about Machine Learning and actively expanding my expertise in this field, bringing versatile capabilities across various technologies and experience through the full software development lifecycle.

EDUCATION

Technical University of Denmark (DTU)

Lyngby, Denmark | Sep 2026 – Expected Jun 2028

Master's degree in Computer Science & Engineering

- **Specialization:** Software Engineering with focus on Machine Learning

University of Milan

Milan, Italy | Oct 2021 – Apr 2025

Bachelor's degree in Computer Science

- **Relevant courses:** Software Engineering, Artificial Intelligence, Statistics and Data Analysis, Computer Architecture, Algorithms and Data Structures, Databases, Calculus.

PROFESSIONAL EXPERIENCE

NTT DATA Europe & Latam

Milan, Italy | Oct 2024 – Jul 2026

Software Engineer

- Developed and maintained microservices for digital payment solutions using Java and Spring Boot, designing REST APIs and configuring relational database properties.
- Built a RAG documentation retrieval system in Python using MongoDB and Ollama, integrating GCP services to automate data extraction from incoming invoices.
- Developed a backend query service translating natural language inputs into structured database queries, implementing schema validation and filtering for reliable data retrieval.

NTT DATA Europe & Latam

Milan, Italy | Jul 2024 – Oct 2024

Thesis Internship

- Developed and evaluated unsupervised Machine Learning models in Python to detect anomalous patterns within financial transaction data.
- Handled data preprocessing, feature selection, model tuning, and validation through quantitative performance metrics and visualizations.
- Built REST APIs in Python to deliver real-time anomaly scoring for incoming transactions, connected to a relational database for persistent storage.

PROJECTS

Social Network For Music, Full Stack Web App

- Built a modular web application with Node.js, Express, and MongoDB, implementing REST APIs and data models for playlist sharing.

Visualization of Chess Game Data

- Analyzed large chess match datasets in Python (Pandas, Matplotlib, Seaborn) to identify statistical patterns across openings, player ratings, and game outcomes.

University Platform, Relational Database Web App

- Designed a relational database management platform using PHP and PostgreSQL with normalized schemas and role-based access control.

EXTRACURRICULAR ACTIVITIES & OTHER EXPERIENCE

Junior Basket Vigevano Coach and Assistant Coach	Vigevano, Italy 2019 – 2024
Led training sessions for youth basketball teams, focusing on athletic growth, technical fundamentals, and positive team collaboration.	
Cambridge English Exams Invigilator for Cambridge English Exams	Voghera, Italy 2022 – 2024
Supervised examination sessions to ensure strict adherence to standardized testing protocols and test validity.	
BICF Library - University of Milan Library Assistant	Milan, Italy May 2023 – Sep 2023
Supported daily library operations, assisting with catalog management and patron access control.	

SKILLS & LANGUAGES

Programming Languages: Python, Java, Go, TypeScript, JavaScript, SQL, PHP
Backend & Cloud: Spring Boot, Node.js, Express, Kafka, REST APIs, GCP, AWS, Microsoft Entra ID, Docker
Frontend & Data: React, Next.js, HTML/CSS, MongoDB, PostgreSQL, Pandas, NumPy
Languages: Italian (Native), English (Fluent / C1 CEFR)