Jibril Gueye

Software Engineer | Machine Learning & GenAI | Backend

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Profile

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

Education

Technical University of Denmark (DTU) — *Lyngby, Denmark*
Master's degree in Computer Science & Engineering — *Sep 2026 – Expected Jun 2028*

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

University of Milan — *Milan, Italy*
Bachelor's degree in Computer Science — *Oct 2021 – Apr 2025*

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

Professional Experience

Software Engineer — *Milan, Italy*
NTT DATA Europe & Latam — *Oct 2024 – Jul 2026*

- Collaborated within an agile team to develop and maintain microservices for digital payment solutions using Java and Spring Boot.
- Designed and implemented a RAG system in Python (MongoDB, Ollama) for documentation retrieval and integrated GCP services to automate data extraction from invoices.
- Developed a chatbot interface that translates natural language queries into structured database prompts with input/output validation for accurate retrieval.

Thesis Internship – Machine Learning — *Milan, Italy*
NTT DATA Europe & Latam — *Jul 2024 – Oct 2024*

- Developed and evaluated unsupervised Machine Learning algorithms in Python for anomaly detection in financial transactions.
- Handled data preprocessing, feature selection, model optimization, and evaluation using performance metrics and visualizations.
- Implemented REST APIs in Python connected to a relational database to deliver real-time anomaly scoring for incoming data.

Projects

VognPilot, AI-Powered Web Application (Ongoing)

- Progressive Web App built with Next.js, React, FastAPI and PostgreSQL. Integrated the Google Gemini API to enable automated grocery receipt scanning and product detection.

Visualization of Chess Game Data

- Conducted exploratory data analysis on large match datasets using Python (Pandas, Matplotlib, Seaborn) to identify statistical patterns and visualize game outcomes.

Social Network For Music, Full Stack Web App

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

University Platform, Relational Database Web App

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

Extracurricular Activities & Other Experience

Coach and Assistant Coach *Vigevano, Italy*
Junior Basket Vigevano *2019 – 2024*

- Led training programs for youth teams, focusing on athletic development, team building and communication with families and children.

Invigilator for Cambridge English Exams *Voghera, Italy*
Cambridge English Exams *2022 – 2024*

- Supervised Cambridge English exam sessions ensuring test validity.

Library Assistant *Milan, Italy*
BICF Library - University of Milan *May 2023 – Sep 2023*

- Supported library operations by assisting with book cataloging and managing access control for university students.

Skills & Languages

Programming Languages: Python, Java, Go, TypeScript, JavaScript, SQL, PHP

Databases: PostgreSQL, MySQL, MongoDB

Frameworks & Web: Spring Boot, FastAPI, Node.js, Express, React, Next.js, MyBatis, REST APIs, HTML/CSS

Data & AI: Machine Learning, RAG, Prompt Engineering, Data Modeling, Pandas, NumPy, Matplotlib

Cloud & Technologies: GCP, AWS, Docker, Kafka, Vercel, Git, Linux, Postman, Microsoft Entra ID

Languages: Italian (Native), English (C1)