



Sadou Abdourhamane MAIGA

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ABOUT MYSELF

I am a 3rd year **Computer Engineering** student applying software engineering principles to the world of **Data Science** and **AI**. My expertise lies in writing clean, efficient **Python** code to analyze complex datasets using **Pandas**, **NumPy**, **Matplotlib**, **Seaborn**, and building predictive models with **Scikit-learn**.

Beyond analysis, I am a capable backend engineer. I build robust, enterprise-level systems using **Java Spring Boot** and **Python Django**, ensuring that my data models are not just theoretical, but accessible via secure **REST APIs**.

I also place a strong emphasis on **Data Engineering**, mastering **MS SQL Server**, **PostgreSQL**, ETL processes, and advanced **SQL** optimization to ensure data quality and performance.

I also have some personal and non-personal projects which are not shown here. Feel free to ask for more if necessary.

EDUCATION & TRAINING

Computer Engineering

Çanakkale Onsekiz Mart University [08/09/2023 - Current]

Level in EQF: 6

KEY ACADEMIC SUBJECTS

Main subjects

Programming fundamentals and object-oriented programming

Programming in **C**, **C#**, **Python**, and **Java**

Data structures, algorithms, and problem solving

Data analysis and data management fundamentals

File structures and data organization techniques

Database design and SQL

Operating systems concepts and Linux basics

Computer organization and architecture fundamentals using **assembly language (MIPS)**

Basic computer system security concepts (DES, AES, RSA)

Basic **analog electronics** (circuit elements, signals, amplifiers)

Basic **digital electronics** (logic gates, Boolean algebra, combinational circuits)

Algorithmic thinking, and code optimization basics

Basic application development through coursework and laboratory assignments

PROJECTS

SQL-DWH-PROJECT Design and implementation of a basic data warehouse using SQL, including table structures, data loading, and analytical queries.

Link: <https://github.com/asad-maiga/SQL-DWH-PROJECT>

[31/12/2025 - 28/01/2026]

Portfolio This is my personal project for making my own portfolio using html, css and javascript.

Link: www.asadmaiga.dev

Simple Chatbot Application Basic chatbot application developed using React.js, allowing user interaction through a conversational interface and predefined responses.

Link: <https://github.com/asad-maiga/simple-chatbot-app>

To-Do List Console Application Console-based application developed in Java for managing tasks, including adding, listing, and removing to-do items. Focuses on basic control structures, data handling, and program flow.

Link: <https://github.com/asad-maiga/to-do-list-console>

Famous Movie Application Basic web application developed using React.js to display information about well-known movies, focusing on component-based UI design and basic state management.

Link: <https://github.com/asad-maiga/FamousMovieApplication>

Bookstore Backend API (Spring Boot) Basic backend application developed with Spring Boot, implementing RESTful endpoints for managing books. Includes simple CRUD operations and basic application structure.

Link: https://github.com/asad-maiga/book_store

[02/02/2026 - Current]

Data Analysis with Pandas As a **learning-oriented project**, this project documents my progression in data science and will be continuously updated with more complex analyses, visualizations, and statistical methods as my skills improve.

Link: https://github.com/asad-maiga/pandas_journey

[20/01/2026 - 02/02/2026]

FRITEQ It's a project I built for a startup agency which I am also member of it using html, css and javascript.

Link: www.friteq.com

Modern ATM Simulation A robust, enterprise-grade hardware simulation of an Automated Teller Machine (ATM). This project demonstrates **Advanced Object-Oriented Programming (OOP)** principles, **Clean Architecture**, and to create a decoupled, testable, and scalable application.

Unlike basic console apps, this project simulates the interaction between software controllers, data services, and physical hardware components (Keypad, Screen, Cash Dispenser) through strict abstraction layers.

Link: www.github.com/asad-maiga/Modern-ATM-Simulation

CPU Scheduler Simulator A visual simulation tool for understanding CPU scheduling algorithms. This project visualizes how the OS kernel manages process execution using **First Come First Serve (FCFS)**, **Shortest Job First (SJF)**, and **Round Robin (RR)** algorithms.

Link: www.asadmaiga.dev

[04/02/2026 - 08/02/2026]

Airbnb Data Cleaning Pipeline With Pandas Developed a Python-based ETL pipeline using Pandas to clean and standardize raw Airbnb listing data. The script automates data sanitation by removing duplicates, handling missing values, and converting currency strings.

Link: <https://www.asadmaiga.dev>

Simple To-Do List Backend (Spring Boot) Basic backend application developed using Spring Boot, providing

RESTful endpoints for managing to-do items with simple CRUD operations.

Link: <https://github.com/asad-maiga/simpletodolistwithSpringBoot>

LANGUAGE SKILLS

Mother tongue(s): French | Songhai

English

LISTENING: C1 **READING:** C2 **WRITING:** C1

SPOKEN PRODUCTION: C1

SPOKEN INTERACTION: C1

Spanish

LISTENING: A1 **READING:** A1 **WRITING:** A1

SPOKEN PRODUCTION: A1

SPOKEN INTERACTION: A1

Turkish

LISTENING: C1 **READING:** C2 **WRITING:** C1

SPOKEN PRODUCTION: C1

SPOKEN INTERACTION: C1

Bambara

LISTENING: C1 **READING:** C1 **WRITING:** A2

SPOKEN PRODUCTION: C1

SPOKEN INTERACTION: C1

HOBBIES AND INTERESTS

Cultural and personal interests

Watching programming and software development videos

Learning new programming languages and technologies

Reading (technical and non-technical)

Playing and following football

Traveling

Coding