

KAYOU BA

Data Analyst | Junior Software Engineer

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PROFILE

Data Analyst and Software Engineer apprentice with 2+ years of experience. Specialized in statistical analysis, data visualization and process automation. Master's in MIAE in progress, available September 2025 for a Data Analyst/Data Scientist position.

EDUCATION

University of Bordeaux

Sept. 2023 – Sept. 2025

Master's in MIAE – Computer Science and Business Management

Bordeaux, France

– Relevant courses: Stochastic processes, Simulation, DBMS, Statistics, OOP, Operations research, Financial forecasting.

University of Bordeaux

Sept. 2020 – May 2023

Bachelor's in MIAE – Computer Science and Business Management

Bordeaux, France

– Specialization after two years in Economics and Management.

PROFESSIONAL EXPERIENCE

Sopra Steria

May 2023 – Present

Software Engineer Apprentice / Developer

Bordeaux, France

- Development and maintenance of web applications (front-end and back-end) for clients in critical sectors.
- Maintenance of 80+ VBA applications for internal process automation.
- Implementation of automated test scenarios for web applications via UiPath.

CMA CGM

Apr. 2023 – Jul. 2023

Assistant Project Manager – Internship

Nouakchott, Mauritania

- Development of an electronic payment solution for Mauritanian clients.
- Data digitization and customer experience improvement.

PROJECTS

F1 Predictability Crisis Analysis (*Python, Pandas, Plotly, Streamlit*)

2024 – Ongoing

- Development of a composite predictability index analyzing 75+ F1 races over 3 years.
- Creation of an interactive Streamlit dashboard with advanced visualizations and correlation analysis.
- Key insights: qualifying-race correlation from 0.52 to 0.82 (+58% predictability over 15 years).

Academic Projects (*PHP, SQLite, Analytics, PostgreSQL*)

Dec. 2023 – Jun. 2025

- Development of a SQL learning website with interactive exercises and personalized progress tracking.
- Creation of StAlHub, a web application for University of Bordeaux students to centralize internship/apprenticeship information.

All projects available on: kayouba.pro and github.com/kayouba

TECHNICAL SKILLS

Data Analysis: Python (Pandas, NumPy, Matplotlib, Plotly), R, SQL, Advanced statistics, Stochastic processes

Visualization & BI: Power BI, Streamlit, Tableau, Advanced Excel, Interactive dashboards

Development: Java, C++, VBA, JavaScript, PHP, Angular

Databases: PostgreSQL, SQLite, DBMS, ETL, Data modeling

Tools & Methods: Agile/Scrum, Jira, Machine Learning (basics), A/B Testing, Business Intelligence, Git, UiPath (RPA)

LANGUAGES

French: Native language **English:** C1 — TOEIC 985/990, Duolingo 135

Spanish: B1 **Arabic:** B1 **Pulaar:** Native language **Wolof:** B2

EXTRACURRICULAR ACTIVITIES

Finalist in eloquence competition (2018) – Speech in favor of forgotten victims.

Former championship football player U17 (2016–2018). Passionate about Football, F1, geopolitics and video games.