

MOUHAMED ABDOULAYE SADJI

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Experience

Jasmine Conseil Senegal
Consultant Software Engineer

Dakar, Senegal
June 2025 – Present

CBAO (Attijari Group)

December 2025 – Present

- Designed and developed a mobile client acquisition app and a back-office management platform for agencies and middle office, using microservices architecture, generating +1 000 prospects in the first month across 4 pilot agencies (+200% client acquisition).
- Developed a decision dashboard enabling agencies to monitor client acquisition in real time, facilitating commercial management and decision-making for agency managers.
- Collaborated closely with business teams (compliance, middle office, account managers) for integration with the Core Banking System Amplitude and modeling validation workflows aligned with the bank's operational processes.

Direction General Douanes Senegalaise – DSID

July – November 2025

- Designed and developed a machine learning model for customs circuit prediction, trained on agents' historical routing data, achieving +95% accuracy and automating risk assessment on customs declarations.
- Complete redesign of the institutional website for the Customs IT Department, modernizing the public interface and improving information accessibility for users and economic operators.

Internal Projects – Jasmine Conseil

June 2025

- Developed a RAG (Retrieval-Augmented Generation) platform enabling secure exploitation of internal company documentation via LLMs, providing access to any available information in under 30 seconds, eliminating manual consultation of multiple files and contacts.

InTouch S.A
Software Engineer

Dakar, Senegal
March 2024 – June 2025

- Designed and implemented a back-office interface for product configuration management, reducing service parameterization time by 40% and improving operational team efficiency.
- Designed and implemented a developer portal integrating API documentation, an API simulation tool, and an automated onboarding and community support process, increasing product adoption by 13%.
- Developed and integrated a multifunctional AI chatbot for interactive documentation on the developer portal, increasing API integrators' autonomy by 80% and reducing support time.

Institut Pasteur de Dakar
Software Engineer Intern

Dakar, Senegal
August 2022 – August 2023

- Set up a digital system for Senegal’s national Syndromic Sentinel Surveillance network (4S), collaborating with a multidisciplinary team of epidemiologists and field agents.
- Developed an intuitive epidemiological data collection interface with VueJS, reducing data entry time from 7+ minutes to 2 minutes for field agents.
- Implemented a near real-time data architecture with automated monitoring (SemaText Cloud), enabling epidemiological anomaly detection with 95% accuracy.
- Designed a decision dashboard for health authorities (Ministry of Health and other stakeholders), aggregating data from 20+ sentinel health sites for strategic national decision-making on febrile diseases.

Institut Pasteur de Dakar
Software Engineer Intern

Dakar, Senegal
June 2021 – October 2021

- Developed a resource and equipment management application for inventorying 5 000+ laboratory equipment.
- Digitalized the equipment reservation process, cutting processing time in half.

Projects

Designer Portfolio

- Designed user interfaces for real-time data control and visualization for Senegal’s first satellite GAINDESAT.
- Created complete visual identities (Branding) for companies in engineering, real estate, cosmetics, etc.

Skills

Java, Spring Boot, Python, Angular, Next.JS, NodeJS, MySQL, PostgreSQL, Agile, Nginx, CI/CD, Google Cloud Platform, Machine Learning, Systems Design, UI&UX.

Education

École Polytechnique de Thiès

Computer Science & Telecommunications Engineering Degree

Thiès, Senegal

2023

- Graduated with highest honors (>17/20)

Cours Privés William Ponty

Scientific Baccalaureate S2

Senegal

2018

- Graduated with honors (>14/20)

Languages: French (C1), English (B1), Wolof (Native)

Interests: Maths, Fashion, Mangas, AI Research