



Alioune SARR

Problem Solver / Team Leader / Software Engineer

Highly skilled software engineer with over 5 years of experience in the fintech industry. Proven expertise in designing, developing, and deploying scalable payment solutions and secure financial systems. Strong leadership skills, combined with technical versatility, make me an asset in dynamic, innovation-driven environments. Experienced in driving critical projects.

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LinkedIn

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E-mail

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Languages

English (Fluent)
French (Native)

Address

DAKAR, SENEGAL

Driving license

B (Personal Vehicle)

SKILLS

- Expert in fintech systems development and optimization.
- Strong advocate for secure software practices.
- Proven leadership in cross-functional and multi-cultural teams.
- Passionate about leveraging technology to drive financial inclusion.

Technical Skills

- System Design
- Scrum
- Google Cloud Platform (GCP)
- Programming Languages
 - Java (Spring Boot)
 - Python (Flask, Django)
 - Dart (Flutter)
- REST API
- Front-End Development
 - React.js
 - HTML, CSS, Bootstrap
- Database Management
 - SQL (MySQL, PostgreSQL, Google Cloud SQL)
 - NoSQL (Mongo DB)
- Fintech-Specific Expertise
 - Payment Systems
 - Secure Transaction Processing
 - OWASP Top 10

WORK EXPERIENCE

• INTOUCH SA

Deputy Core Processing Manager

May 2025 to Now

- Leading modernization initiatives to migrate legacy systems toward a highly scalable and resilient architecture in collaboration with external consultants.
- Managing and mentoring a team of developers and internal trainers to strengthen technical expertise and ensure delivery excellence.

Technologies : **Design - GCP - Scrum - Project Management - JAVA**

Lead DevOps Engineer

October 2024 to May 2025

- Led a team of developers to enhance and maintain core fintech applications.
- Designed, developed, and deployed a cutting-edge payment engine serving 9 West African countries (ECOWAS + Guinea).
- Ensured the secure management of MySQL databases (VM and Cloud SQL) to handle sensitive financial data.
- Supervised and mentored trainees to foster knowledge sharing and innovation.

Technologies : **Spring Boot - GCP - MySQL - Maven - Scrum**

Devops Engineer

September 2022 to October 2024

- Improved and maintained fintech core systems, including payment platforms and monitoring applications processing 400K+ daily transactions.
- Successfully migrated databases with over 1 billion transactions to optimize scalability and performance.
- Modernized existing payment systems and designed secure architectures for financial data handling.

Technologies : **Spring Boot - Flutter - Cloud SQL - MySQL - Kubernetes - Maven - Jenkins - Nexus - Scrum - GITLAB CI**

Full Stack Developer

February 2021 to September 2022

- Developed payment plugins for major CMS platforms (e.g., Joomla, PrestaShop, WooCommerce) and integrated payment gateways into core systems.
- Streamlined CI/CD pipelines to enforce application security rules and comply with OWASP standards.

Technologies : **OWASP - JAVA EE - PHP - HTML & CSS - Maven - Jenkins - Joomla - Prestashop - Hikashop - WooCommerce - Drupal**

- Tools & Methodologies
 - GitLab CI
 - Jenkins
 - Maven
 - Scrum

ONLINE CERTIFICATIONS

- GCP Google Kubernetes Engine Management Badge
- MATLAB Onramp (MathWorks)
- Introduction to Python (Open Classrooms)
- Excel Fundamentals
- Introduction to Computer Networks (CISCO)

• POLYLAB DE THIES

Full Stack Developer

August 2020 to November 2022

- Developed and enhanced control systems for medical-grade devices, focusing on real-time monitoring and reliability.

Technologies : **Python - Flask - React JS - HTML & CSS - Kivy - Arduino - C/C++**

• THIES POLYTECHNIC SCHOOL

Full Stack Developer

June 2020 to January 2021

- Designed a digital workspace platform for academic management, including scheduling, grade tracking, and content distribution.

Technologies : **Django Rest Framework - React JS - Mongo DB**

SOME PERSONAL PROJECTS

University Ticketing System

Developed a seamless ticketing solution for student meal services, integrating RFID badges with a digital account system.

Technologies : **Python, Raspberry Pi, MongoDB Atlas**

"Target" Mobile App

Designed a COVID-19 exposure tracking app using real-time user location comparison for effective risk mitigation.

Technologies : **Flutter, Firebase Functions, Firestore**

EDUCATION

Engineer Degree in Computer Science

SENEGAL

Thies Polytechnic School

August 2017 to November 2022

Positions Held

- Head of Commission for Relations with Companies and International Organizations
- Head of Tennis Commission
- Head of Brain Games Commission