

CHEIKH FAME

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FULL-STACK JAVA DEVELOPER

Experienced Full-Stack Developer with over 9 years of designing and implementing scalable, data-driven applications across finance, ERP, legal, and payment systems. Proven success building public-impact systems like MapAfrica at AfDB, enabling multidimensional analysis of financial projects through geospatial integration. Skilled in all phases of the SDLC, including system architecture, backend development, and deployment using Agile/Scrum methodologies. Proficient in Java, Groovy, Grails, Spring Boot, ReactJS, PostgreSQL, Cloud.

- Agile & Scrum Methodologies • API Design & Integration • Data Management & ETL
- Financial System Engineering • Cloud & Infrastructure Management • Software Quality & Maintainability

Languages: Java, Groovy, JavaScript

Web: HTML5, CSS3, ReactJS, Vue.js 3, Bootstrap, JSP, ZK Framework, Thymeleaf, GSP

Web Services: REST APIs, SOAP, Talend Data Services, JSON, XML

Web/App Servers: Apache, Tomcat, Glashfish, Jboss

Frameworks: Spring Boot, Grails, Spring MVC, JUnit, Mockito, EJB 3, Spring AI

Databases: PostgreSQL, MySQL, Oracle DB

Design Patterns: Singleton, Proxy, Decorator, Iterator, Factory, Dependency Injection

SDLC: Agile, Jenkins, SonarQube, Git

Tools: Maven, Gradle, ELK (Elasticsearch, Logstash, Kibana) Stack, Talend Data Integration (ETL), Microsoft Azure DevOps, Docker, Jira, *JUnit*, *Mockito*.

Platforms: MacOS, Linux, Microsoft Azure, AWS

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

PROFESSIONAL EXPERIENCE

AFRICAN DEVELOPMENT BANK GROUP, Abidjan, Côte d'Ivoire • 05/2017 – 01/2025

Senior Software Developer

- Engineered interactive geospatial dashboards for MapAfrica using Java, Spring Boot, Vue.JS, and PostgreSQL to visualize over 5,000+ development projects, enhancing transparency for donors and stakeholders.
- Developed a Spring AI application using Retrieval-Augmented Generation (RAG) and tools integration to search information from documents and automatically calculate financial expenditures for specific scenarios, improving accuracy and efficiency in data analysis.
- Led IATI-compliant system enhancements using Talend for importing, transforming, and publishing structured XML/JSON datasets, contributing to AfDB's #1 Aid Transparency Index ranking in 2022 and 2024 in the world.
- Integrated Azure Key Vault and Jenkins into CI/CD pipelines to automate secure deployments of web services, reducing manual release effort and minimizing configuration errors.
- Designed a responsive ReactJS front-end integrated with Bootstrap and Leaflet.js for layered map navigation, improving user interaction across regional and sectoral views.
- Developed modular RESTful APIs for financial data aggregation using Spring Boot and Grails, enabling real-time project insights and reducing data retrieval latency by 45%.
- Implemented secure document archiving and retrieval features using IBM CMIS and Apache Chemistry OpenCMIS, enabling metadata-based search and regulatory-compliant storage for enterprise applications.

Technologies Used: Java, Spring Boot, Spring AI, Spring Security, WebServices, Groovy, Flutter, JavaScript, Vue.js 3, ReactJS, Bootstrap, HTML/CSS, PostgreSQL, OAuth2, Microsoft Azure, Gradle, Apache POI, Apache Chemistry OpenCMI, GitLab, Leaflet.js, Talend Data Integration, JSON, XML, JUnit, Mockito, IntelliJ IDEA.

SENSOFT, Dakar, Senegal • 08/2016 – 04/2017

Fullstack Developer

- Designed and documented the technical architecture for multiple enterprise applications using UML, Swagger, Jira, ensuring scalability, modularity, and alignment with business requirements.
- Developed ARYA, a web and mobile platform covering purchasing, sales, CRM, inventory, and deposits using Java, Groovy/Grails, ReactJS, and MySQL, enabling multi-branch coordination and operational transparency.

- Implemented role-based access control and encrypted user sessions using Spring Security and JWT, improving system security and compliance for enterprise clients.
- Implemented continuous integration and production deployment pipelines using Jenkins and Git, reducing manual releases and increasing deployment frequency.

Technologies Used: Java, Groovy, Grails, ReactJS, Spring Security, MySQL, Gradle, Jasper Reports, REST APIs, JWT, Git, IntelliJ IDEA, JUnit.

INTOUCH GROUP, Dakar, Senegal • 02/2016 – 08/2016

Software Engineer

- Designed and developed Guichet Unique, a centralized electronic payment system supporting virtual accounts and real-time transactions across telecom partners including Orange, Orange Money, Tigo Cash, Expresso, and April.
- Integrated telecom APIs and payment gateways using REST/SOAP, facilitating seamless deposits and withdrawals across digital payment accounts (DPAs).
- Implemented CI/CD pipelines using Jenkins and Git for staging and production, increasing deployment efficiency and reducing manual testing cycles.

Technologies Used: Java, EJB 3, ZK framework, Ionic, REST APIs, SOAP, Jenkins, SonarQube, Tortoise SVN, MySQL, Contexts and Dependency Injection (CDI), JUnit.

IDYAL GROUP, Dakar, Senegal • 07/2015 – 02/2016

Software Engineer

- Developed a module for building management, intervention tracking, and equipment lifecycle within a 16-module CMMS using Spring, Hibernate, and Thymeleaf, automating workflows and improving incident resolution time by 40%.
- Established CI/CD and automated testing processes using Jenkins, Maven, and integration testing tools to streamline delivery and reduce bugs.
- Participated in technical architecture reviews and contributed to design decisions for multiple enterprise applications.

Technologies Used: Java, Spring, MySQL, AJAX, JPA, Thymeleaf, Maven, SOAPUI, Bootstrap, Jasper Report, Tomcat, JavaScript, Ionic, Jenkins, SonarQube, TortoiseSVN, Jira Agile, JAXB.

ACADEMIC PROJECTS

Maharishi International University (2025)

- **Tic Tac Toe Realtime:** Built a real-time multiplayer Tic Tac Toe game with WebSocket communication (API Gateway), AWS Lambda for game logic, DynamoDB for state management, CloudFormation for infrastructure, and CodePipeline for CI/CD. Utilized AWS Cloud, Node.js, Express, TypeScript, ReactJS.
- Developed a full-stack product review and rating app with RESTful APIs (Express + TypeScript), dynamic UI (React + Tailwind), and JSON persistence. Added pagination, filtering, validation, and error handling. Utilized React, TypeScript, Express, Node.js, Tailwind CSS, React Router, Context API, JSON, Git.
- Integrated a Spring Boot app with ELK stack for centralized logging and dashboards. Configured Logstash-compatible logging, Elasticsearch indexing, and Kibana dashboards. Utilized Spring Boot, REST APIs, ELK Stack, JPA, Hibernate, AWS, MySQL.
- **Write a RAG application that allows you to ask the LLM model questions data that is specified in a PDF file.:** I built the entire application. Utilized Spring Boot, Rest APIs, Redis, OpenAI, AWS, MySQL DB.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 10/2027)

Maharishi International University, Fairfield, Iowa

Key Courses: Web Application Programming, Cloud Computing, Algorithms, Enterprise Architecture

Master in Computer Science and Telecommunications

Ecole Polytechnique of Thies, Thies, Senegal (08/2015)

Bachelor in Mathematics

Universite Cheikh Anta Diop (UCAD), Dakar, Senegal (09/2012)