

# Mohamed Hamed MOHAMED AHMED

Software Engineer

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## Profile

Software Engineer at LCL, contributing to internal banking platforms used by several thousand branch advisors. Backend-focused with Java and Spring Boot, working on the maintenance and incremental improvement of legacy systems. Open-source contributor to PMD, Checkstyle, and WeasyPrint. Master's student at Université Claude Bernard Lyon 1.

## Education

- Master 2 Technologies de l'Information et Web** Sep 2025 – Present  
*Université Claude Bernard Lyon 1, France*  
Cloud Computing, Storage and Virtualization, Large-Scale Data Systems, Real-Time and Multi-Device Web Applications, Application Reliability and Security, Data Analysis
- Master 1 Informatique** Sep 2024 – July 2025  
*Université Claude Bernard Lyon 1, France*  
Distributed Algorithms, Compiler Design, Databases, Software Engineering, Project Management, Web Application Design
- Licence Informatique (Bachelor's Degree)** Jan 2021 – Jul 2023  
*Université de Nouakchott, Mauritania*  
Algorithms, Data Structures, Web Development, Databases

## Professional Experience

- Software Engineer (Apprenticeship)** Sep 2025 – Present  
*LCL, Villejuif, France* — Major French retail bank, subsidiary of Crédit Agricole Group
- Contributing to the maintenance and evolution of client onboarding and sales portal applications used daily by several thousand branch advisors.
  - Developing and maintaining microservices related to customer account creation and subscription workflows.
  - Refactored the document management layer from local filesystem storage to Amazon S3, enabling stateless deployment within a containerized architecture.
  - Designing and automating end-to-end test suites integrated into CI/CD pipelines.
- Tech Stack: Java, Spring Boot, Angular, Amazon S3, Selenium, Cypress*
- Full-Stack Developer** Mar 2024 – Jun 2024  
*Software Savants, Nouakchott, Mauritania* — Software agency specializing in healthcare solutions
- Integrated Saudi Arabia's NPHIES (National Health Information Exchange) API into the healthcare backend in compliance with national interoperability standards.
  - Developed API connections for real-time patient eligibility verification and automated insurance claim workflows.
  - Worked with healthcare data standards including HL7 FHIR for cross-system interoperability.
  - Configured CI/CD pipelines for automated testing and deployment.
- Tech Stack: Python, Frappe Framework, MariaDB, HL7 FHIR, GitLab CI/CD*
- Frontend Developer** Dec 2023 – Feb 2024  
*GSM, Nouakchott, Mauritania* — IT consulting and technology solutions provider
- Modernized the National PBF (Performance-Based Financing) Portal for the Ministry of Health.
  - Built automated reporting systems aggregating data from healthcare facilities nationwide.
  - Developed an interactive public dashboard for health metrics visualization with performance optimizations.
- Tech Stack: Next.js, React, TailwindCSS*
- Full-Stack Developer** Feb 2023 – Dec 2023  
*Ibtikar Technologies, Nouakchott, Mauritania* — GovTech and digital identity solutions
- Started as an intern; promoted to full-time after five months based on performance.
  - Developed a mobile application for traffic officers to digitally record road violations.
  - Integrated a secure payment gateway for real-time fine settlements.
  - Built an administrative dashboard centralizing infraction data for reporting and operational analysis.
- Tech Stack: React Native, Node.js, Next.js, MongoDB Atlas, Firebase*

## Open Source Contributions

- PMD** (Static Code Analysis): 2 merged PRs fixing Java parser bugs including switch expressions in `super()` calls and pattern variables in for-each loops.
- Talawa API** (Palisadoes Foundation): 3 merged PRs achieving 100% code coverage on mutation resolvers (unit and integration tests).

- **WeasyPrint:** Contributed bug fixes and improvements to the Python HTML/CSS-to-PDF engine and interacted with core maintainers during the review process.

## Technical Skills

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<b>Languages:</b>	Java, Python, TypeScript, JavaScript, SQL
<b>Backend:</b>	Spring Boot, Spring WebFlux, FastAPI, Node.js, Express.js, Frappe, REST APIs, Microservices
<b>Frontend:</b>	Angular, React, Next.js, React Native, TailwindCSS
<b>Databases:</b>	PostgreSQL, MySQL, MongoDB, MariaDB, Redis
<b>Cloud &amp; DevOps:</b>	Amazon S3, Cloudflare R2, Docker, Git, GitLab CI/CD, GitHub Actions, Linux
<b>Testing:</b>	Selenium, Cypress, JUnit, Jest

## Languages

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**English:** Professional Working Proficiency · **French:** Professional Working Proficiency · **Arabic:** Native