

Mohamed Hamed MOHAMED AHMED

Software Engineer

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Profile

Computer Science Master's student at Université Claude Bernard Lyon 1, skilled in **Python**, **Java**, **TypeScript**, databases, and **Linux** environments. Passionate about scalable backend systems and cloud technologies. Seeking a 12-month apprenticeship starting September 2025 to apply my skills and grow through innovative, high-impact projects.

Professional Experience

Full-Stack Developer

Software Savants, Mauritania

Mar 2024 - Aug 2024

- Developed RESTful APIs using **Python** with Frappe framework that improved patient data access by 40%.
- Designed intuitive user interfaces with **Angular**, reducing staff training time by 25%.
- Implemented automated testing that decreased bug reports by 30% after deployment.
- Integrated developments into **GitLab CI/CD** pipeline, reducing deployment time from hours to minutes.

Full-Stack Developer

Ibtikar Technologies, Mauritania

Feb 2023 - Nov 2023

- Built a real-time traffic monitoring system with **Node.js** and **MongoDB** that served 5,000+ daily users.
- Optimized real-time data synchronization, reducing latency by 60% for critical traffic updates.
- Developed responsive interfaces with **React Native** that increased mobile user engagement by 35%.

Projects

- **Cloud Image Processing API** (April 2025)
 - **Tech Stack:** FastAPI, Python, PostgreSQL, Redis, Docker, Cloudflare R2, JWT, Pillow
 - Developed a production-ready REST API for image processing with comprehensive transformations (resize, crop, rotate, format conversion, and filters).
 - Built a Redis caching system that improved transformation performance by 70% and reduced redundant processing.
 - Integrated with Cloudflare R2 for scalable cloud storage and PostgreSQL for relational data management.
 - Designed JWT authentication system securing all endpoints with proper role-based access control.
 - Containerized the application with Docker and deployed to DigitalOcean App Platform with CI/CD integration.

Education

Master's Degree in Computer Science

University Claude Bernard Lyon 1, France

Coursework: Distributed Algorithms, Data Analysis, Databases, Web Application Design, Software Engineering

Sept 2024 - Present

Bachelor's Degree in Computer Science

ISCAE, Nouakchott, Mauritania

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Web Development, Databases

Jan 2021 - Jul 2023

Skills

Programming Languages: C++, Java, JavaScript, **Python**, TypeScript

Backend: Express.js, **FastAPI**, **Flask**, Frappe Framework, Java EE, Microservices, Node.js, REST API, Spring Boot

Frontend: Angular, HTML/CSS, Next.js, React.js, React Native, Redux, TailwindCSS

Databases: MongoDB, MySQL, **PostgreSQL**, **Redis**

DevOps & Tools: Docker, Git, GitLab CI/CD, Jenkins, **Linux**, **Command Line**

Assets

Languages: English (Fluent), French (Professional Working Proficiency)

Strengths: Adaptability, Analytical Skills, Detail-Oriented, Quick Learner, Teamwork