

PROFESSIONAL SUMMARY

Highly dedicated software engineer with an M.S. in Computer Science and almost 4 years of production-level experience. Proven expertise in building scalable distributed systems, developing infrastructure using Java and Spring Boot, and working with complex data structures and algorithms. Passionate about solving real-world problems with reliable, accessible, and performant software solutions.

TECHNICAL SKILLS

Programming Languages: Java, SQL, HTML, CSS, JavaScript

Frameworks & Libraries: JavaEE, Spring Boot, Angular, Reactjs, Ionic, Android-SDK

Web Services & Databases: RESTful APIs, MySQL, PostgreSQL, MongoDB

Tools & Platforms: Git, Docker, RabbitMQ, Eureka

Cloud: AWS (EC2, IAM, S3, Lambda, SNS, SQS, RDS), Firebase (Firestore, Auth, FCM, Functions)

CI/CD: Github Actions

Agile Methodologies: SCRUM

PROFESSIONAL EXPERIENCE

Software Developer

01/2021 - 09/2022

National Bank of Mauritania

- Designed and implemented a distributed integration service connecting external insurance systems with the Bank's internal payment platform using Node.js, RESTful APIs, Webhooks, and PostgreSQL.
- Improved scalability and decoupling by implementing an asynchronous messaging architecture using RabbitMQ.
- Leveraged Docker for containerization and Eureka for service discovery across the microservices architecture.
- Created and deployed custom JavaScript functions within the payment platform to automate administrative dashboard tasks such as generating reports, executing scheduled jobs, and exporting data.
- Built a separate financial transaction simulation tool for the accounting team using Java, Spring Boot, Angular, and MySQL.
- Deployed the tool to AWS using EC2 for compute and RDS for relational data storage.

Software Engineer

01/2020 - 12/2020

People's Bank of Mauritania

- Developed a microservice architecture with inter-service communication using Java, Spring Boot, and REST API.
- Built a real-time hybrid monitoring dashboard for mobile and web using Ionic, Angular, and Cordova.
- Developed the mobile application backend using Node.js and Firebase Cloud Functions.
- Implemented authentication and authorization using Firebase Auth Service with JWT and bcrypt.
- Integrated Firebase Cloud Messaging for real-time alerts and push notifications in the mobile and web apps.
- Integrated the bank's SMS API to notify administrators of critical system-issues.

Web Developer

07/2018 - 03/2019

Mauribit (<https://www.mauribit.com>)

- Built a responsive web application using Reactjs, HTML, CSS, and JavaScript, focusing on accessibility and UX.
- Used AWS Amplify, IAM, and Lambda to deploy the UI app and enable Lambda read/write access to AWS S3.
- Implemented semantic HTML standards to improve accessibility for users with assistive technologies.
- Collaborated with team members for scalable frontend architecture and debugging.
- Maintained documentation and user manuals for improved usability and knowledge transfer.
- Used Git, Bitbucket, and Trello to manage tasks and source control effectively.

EDUCATION

- **Master of Science in Computer Science | 11/2022 - 03/2025**
Maharishi International University - Fairfield, Iowa, USA
- **Master of Science in Computer Science | 10/2018 - 12/2020**
Nouakchott Modern University - Nouakchott, Mauritania
- **Bachelor of Science in Mathematics and Computer Science | 10/2015 - 06/2018**
Nouakchott Modern University - Nouakchott, Mauritania