

# Abdelmejid Oumer Ali

## SENIOR BACKEND ENGINEER

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### SUMMARY

Experienced Backend Engineer with 5+ years of expertise in building scalable, high-performance applications using Java (Spring Boot) and Node.js, with additional proficiency in modern front-end frameworks like React and Vue.js. Skilled in developing robust backend services, API integrations, and improving UI functionality. Strong team player with a proven track record of delivering maintainable, production-ready code in remote, cross-functional environments.

### SKILLS

**Languages:** Java, Javascript, Typescript, Go

**Frameworks/Libraries:** Spring Boot, NodeJS, Express

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

**Cloud/DevOps:** Docker, Kubernetes, CI/CD Pipelines, AWS

**Others:** Kafka, RESTful APIs, Software Design, Continuous Delivery, TDD, Git, GitHub, Agile Development, Remote Pair-Programming

### EXPERIENCE

MEDRAFA

Addis Ababa, Ethiopia

**Senior Software Engineer**

October 2025 – Present

- Develop and maintain an interoperability layer that implements HL7/FHIR standards to integrate systems, including EMRs, pharmacies, and reporting platforms.
- Develop and enhance a pharmacy inventory management system that tracks procurement, dispensing, and stock levels in real-time across multiple sites.
- Develop and maintain an e-prescription system that allows clinicians to issue and manage prescriptions electronically.
- Drive backend integration to enable data exchange and interoperability across HIS systems, leveraging standard protocols for streamlined patient care.
- Utilize technologies such as Spring Boot, PostgreSQL, Redis, Kafka, and Docker to develop scalable and reliable backend services.

ICAP AT COLUMBIA UNIVERSITY

Addis Ababa, Ethiopia

**Software Developer**

November 2024 – October 2025

- Driven backend integration to enable data exchange and interoperability across HIS systems, leveraging standard protocols for streamlined patient care and program monitoring.
- Architected and implemented middleware ETL and data pipeline solutions for large data set processing, supporting real-time analysis, reporting, and dashboarding.
- Integrated healthcare platforms, including ERM-ART, EMR-Pharmacy, DHIS2, REDCap, and the Viral Load Dashboard, ensure bi-directional data flow for cohesive data management.
- Collaborated on backend architecture and data migration strategies to transition legacy data into the new OHRI system.
- Provided technical support and backend enhancements across project sites, working closely with stakeholders to meet project requirements and promote best practices.

SAFARICOM MPESA FINANCIAL SERVICES PLC

Addis Ababa, Ethiopia

**Backend Engineer**

July 2023 – October 2024

- Developed and maintained backend services using Java Spring Boot, facilitating seamless integration with M-Pesa mobile money APIs.
- Architected and implemented RESTful APIs to enhance the functionality and scalability of the MPESA platform, ensuring the reliability and efficiency of financial transactions.
- Utilized PostgreSQL and Redis to manage and optimize data storage solutions, enabling efficient and secure data retrieval.

MICROVERSE

Remote

**Code Reviewer (Part-Time)**

November 2022 – July 2023

- Provided in-depth code reviews for over 100+ pull requests monthly, focusing on projects using React, Redux, and Ruby on Rails.
- Recognized as a top code reviewer in May 2023 for consistently ensuring high code quality and adherence to best practices.
- Mentored junior developers in best practices, remote collaboration, and version control, contributing to their professional growth and the success of their projects.

YOUTH TECHNOLOGIES PLC

Addis Ababa, Ethiopia

**Backend Engineer**

February 2021 – February 2023

- Engineered robust APIs using Node.js and Express for inventory management systems, enabling real-time tracking and analytics reporting.
- Developed and deployed responsive dashboards using React to visualize key performance indicators and support decision-making processes.
- Collaborated with a cross-functional team to ensure seamless integration of back-end services with front-end applications, improving overall system performance.

WOLLO UNIVERSITY

Kombolcha, Ethiopia

**Assistant Lecturer**

September 2019 – January 2021

- Taught core software engineering courses to over 50 students, focusing on developing clean, scalable, and maintainable code.
- Guided students through hands-on projects, emphasizing the importance of version control using GitHub and effective debugging techniques.
- Fostered a collaborative learning environment, encouraging students to engage in pair-programming and peer reviews to enhance their coding skills.

## EDUCATION

MICROVERSE

Remote

**Remote Full Stack Web Development Program**

May 2022 – January 2023

- Dedicated 1300+ hours to mastering algorithms, data structures, and full-stack development with Ruby, Rails, JavaScript, React, and Redux.
- Gained expertise in remote pair-programming, using GitHub for collaboration, and adhering to industry-standard git-flow practices.

WACHEMO UNIVERSITY

Hossana, Ethiopia

**BSc, Software Engineering**

September 2015 – July 2019

- Graduated with a CGPA of 3.86/4, excelling in software development, data structures, and algorithm design courses.