

Abel Seyoum

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SOFTWARE ENGINEER

Adaptive and experienced **software engineer with over 5 years** of experience working end-to-end software development life cycle in **Java, Spring, JavaScript, React, Node, and AWS**. Proficient in **object-oriented, service-oriented (SOA), and microservices architecture**, with a strong track record of delivering highly scalable and robust end-to-end web solutions to clients. Skilled in system design and analysis of applications, web service architectures, and Restful APIs. Dedicated to continuous learning and applying for a software engineer role to provide innovative solutions and support for challenging problems.

PROFESSIONAL EXPERIENCE

Software Engineer (Full Stack Developer)

November 2021 – December 2022

Commercial Bank of Ethiopia

Addis Ababa, Ethiopia

- Engineered and rebuilt our Internal Staff Loan Management System web app using **Java, Spring Boot, React, and microservice architecture for 50k+ users**. Used Hibernate and PostgreSQL for data storage for local prod.
- Led and managed microservice services built using Spring Boot, Node (Express), Mongo, Hibernate, and Docker and leveraged AWS ECS, AWS EC2, Kubernetes, Lambda, API Gateway, IAM, and Cloud Watch to orchestrate, deploy, manage, and deliver resilient backend functionality.
- Implemented **the management dashboard**, interfaces and components using **Angular**.
- Used **AWS S3** for cloud storage on an **image-intensive web service**, leading to a faster time to first byte and reduced storage on our on-prem servers.
- Engineered a scalable web app, that had **real-time event-driven processing system using Kafka**, achieving seamless handling of streaming payments, reducing data processing times by 30%.
- Created **react components** for the users, using Forms, Events, Keys, Router, Redux, and Flux.
- Participated in **code reviews** and developed and maintained unit test suite using JUnit to ensure code quality with high coverage.
- Collaborated with cross-functional teams QA's, Devops and the networking department, to automate CI/CD with Jenkins, monitor health and logs and optimize application performance and scalability.

Back End Developer

August 2017 – October 2021

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Addis Ababa, Ethiopia

- Developed a **comprehensive ticketing web application** using **Java, Spring Boot, React, and database MySQL** Including **user authentication, and authorization for the security of accounts using JWT**.
 - Played a pivotal role in **code reviews**, contributing to an improvement in **code quality** and adherence to **best practices and coding standards**.
 - Managed state in our frontend, using both local component state and external state management library redux to handle state logic.
 - Ensured the reliability of our platform through **thorough unit, integration, and functional testing, creating comprehensive test cases**, test scenarios, and detailed test logs by using **Junit, Mockito, Jest, and Cypress**, leading to a 30% decrease in post-release defects.
 - Conducted routine performance tuning, optimization, and code reviews, resulting in a 40% reduction in application response times.
 - Participated actively in **Agile development ceremonies**, contributing to standups, retros, and board meetings, and generating insightful reports on development processes.
 - Conducted comprehensive software testing for the back and front-end using JUnit, Mockito, Jest, and REST Assured, to get 90%+ code coverage and ensure bug-free software and faster performance.
 - Designed and developed a responsive user-friendly, data-driven ticketing system that led to an impressive 75% improvement in customer retention.
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TECHNICAL SKILLS

Languages: Java, JavaScript

Web: jQuery, Bootstrap, React, Apache Tomcat

Web Services: REST, JSON, GraphQL, XML, AWS

Frameworks: Spring Angular, Hibernate, Express, JUnit, Mockito, Jest, Kafka, Jakarta EE, J2EE

Databases: MySQL, PostgreSQL, MongoDB, AWS RDS, DynamoDB

Design Patterns: Microservices, MVC, Singleton, Strategy, Template, Observer, State, Composite, Chain of Responsibility, Proxy Adapter, Factory, Builder

SDLC: Agile/Scrum, TDD, Iterative, Waterfall, Designing, Analyzing, Coding

Tools and Platforms: Git, GitLab, GitHub, VSCode, JIRA, Jenkins, Docker, IntelliJ, JWT, Maven, Gradle, Postman, ELK

Logging and Monitoring: Grafana, Splunk, Prometheus, Micrometer, SonarQube

EDUCATION

Master of Science in Computer Science

Maharishi International University, Fairfield, Iowa, USA

Key Courses: *Algorithms, Enterprise Architecture, Software Architecture, Advanced Software Development, Cloud Computing, Web Application Architecture*

In progress via distance education, expected completion 10/2025

Bachelors in Information Technology

Addis Ababa Institute of Technology, Addis Ababa, Ethiopia