# Robeil Aregawi

*Full-Stack Java Developer | Backend Java Developer*

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## SUMMARY

Highly skilled Java Software engineer with 6+ years of experience designing and improving microservices applications, optimizing code readability, and improving team performance by implementing best practices and ensuring industry standards. Proficient in all stages, status of the software development lifecycle, from requirements gathering to analysis, design, development, testing, execution, integration, and deployment. Expertise in developing backend components, backend services, front end react components, end to end, databases, algorithms design, interfaces, APIs, communication, collaborate. Technologically proficient in Java Spring MVC, Spring Boot, MS SQL, MySQL, SQL server, MongoDB, Node.JS, HTML5, DOM Manipulation, ReactJS, Responsive UI, and a variety of design patterns. Completion of master's degree in computer science, awaiting graduation ceremony this October 2023, and holding AWS Cloud Computing Certification. Skilled in using technologies such as Java, react.js, GitHub, AWS, Spring, Hibernate, Kafka, Micro services and continuous integration, continuous deployment (CI/CD) using Agile Scrum throughout the complete software development life cycle.

## CORE SKILLS

*Language:* Java, J2EE, JavaScript
*Web:* JavaScript, html, HTML5, CSS3, JSP, XML
*Web Services:* REST, SOAP, Microservices, backend
*Web and Application Servers:* Apache Tomcat, node.js
*Frameworks:* Spring Boot, Spring MVC, Spring Data, AOP, IOC-Dependency Injection, Spring Cloud Security, spring framework, React.js, unit test, hibernate (ORM), JPA, REACT, Express, Ajax, JUnit, JSON, backend API
*Databases*: relational database, MySQL, NoSQL, MongoDB, PostgreSQL, MS SQL
*Design Patterns:* Object oriented programming (OOP), data structure, Singleton, Façade, Factory, Command, Microservices Design Patterns (CQRS, SAGA), Infrastructure Architecture, responsive design, functional programming
*Open Sources*: Apache, Jenkin, Git, GitLab/GitHub, bash Maven, Tomcat, NPM, Visual Studio Code
*CI/CD:* GitHub, Amplify (AWS), Heroku
*SDLC:* Agile/Scrum, Iterative, Domain-Driven Design (DDD), Test-Driven Development (TDD)
*Tools:* IntelliJ IDEA, Eclipse, Visual Studio code, STS, Maven, StarUML, Bootstrap, Postman, Talend API Tester, Docker, Jenkins, GIT, Apache Kafka, ActiveMQ, RabbitMQ, JMS
*Cloud: Amazon Web Services,* EC2, Lambda, S3, IAM, RDS, CloudFront, DynamoDB, Route53, SNS, SQS, Cloud watch, AWS Amplify, CloudFormation, API Gateway
*Platforms:* Windows, MacOS

## SOFT SKILLS

Communication Skills, *collaborate,* Interpersonal, Leadership Skills, Continuous learning, Compliance, Teamwork, Conflict Resolution, detail oriented, Emotional Intelligence, Active Listening, Patience, Workplace Etiquette, Positive Attitude, Team facilitation, collaborative, Problem solving, attention to detail, Diversity, Negotiation, support and innovation business objectives, quality production, organizational skills, e-commerce, quality assurance of API, strategic planning, end to end services, troubleshooting, build solutions, business intelligence

analytics, customer service, basic business strategy.

## WORK EXPERIENCE
*Kabbee Organization | San Jose, CA | Part-time | 01.2023 – 07/2023, Voluntary Full stack Java Engineer*

- *Work Collaboratively* with software developer s and implement proven technologies to develop software products while ensuring scalability, reusability, accessibility, high availability, innovative, and reliability in an Agile methodology.
- Maintained software and documented tasks, procedures, execution, technical documentation, and code review.
- Participated in risk management, user stories, architectural meetings, testing and written documentation process.
- Participated in a software development team, web development, web application, test plan, sprint plan and maintaining.
- Proficient application developer using Spring Boot and its various backend components such as Spring Web, Spring Data, and Spring Security and other programming language.
- Experienced in developing RESTful microservices using Spring Boot and Spring Cloud, utilizing various components.
- Proficient in implementing mapping of associations between entity classes and their relationships in logic, utilizing default methods in interfaces and static methods in interfaces for providing common behavior and utility methods.
- Implemented mapping of associations between entity classes and database schema.
- Created repositories in Spring Boot that utilize both native SQL queries and JPQL.
- Wrote clean, efficient, debugging, and maintainable code that follows industry best practices such as functional interfaces, lambda expressions, and the Stream API to improve code readability and maintainability, and to leverage the power of functional programming paradigms and continuous improvement.

*Technologies Used:*

- Java, Spring Boot, Spring MVC, html, rest API, micro services, Relational Database MySQL, Postgres, mongo, IntelliJ, Maven, React, Git

*Enterprise Fleet Management, St. Louis, MO, Backend Java Developer, 09.2020 - 02.2022*

- Contributed and collaborated to architectural meetings and collaborated with cross-functional teams in agile software development and product design.
- Implemented the OAuth authentication flow according to the selected OAuth specification, including handling redirects, consent screens, and token requests.
- Ensured secure storage of client secrets, access tokens, and refresh tokens, often by leveraging secure configuration management practices.
- Implemented mechanisms to prevent common security vulnerabilities, such as CSRF attacks, token leakage, and replay attacks.
- Validated incoming access tokens to ensure their authenticity and integrity.
- Developed and deployed a Spring batch processing application to handle large records Leverage Java 8 features, such as lambda expressions and streams, to write concise and efficient code.
- Developed a Spring Boot application using Spring Web, Spring Data, and Spring Security.
- Developed RESTful microservices using Spring Boot and Spring Cloud, take advantage of Java 8's functional programming capabilities, such as method references and optional types, to write cleaner code.
- Integrated Kafka with other systems and applications, facilitating seamless data flow across

components, such as databases, and messaging systems.

- Ensured scalability and resilience of the Kafka infrastructure by distributing topics across partitions, configuring replication, and handling failover scenarios.
- Implemented mapping of associations between entity classes and utilized SQL frameworks such as Hibernate to interact with databases from Java code.
- Designed SQL views to simplify complex queries, to increase performance improvement and responsiveness in concurrent programming scenarios.
- Created repositories in Spring Boot that utilize both native SQL queries, JPQL, Stream API for efficient and expressive querying and manipulation of data.

*Technologies Used:*

- Java, spring framework, spring boot, REST, SQL, JUnit, Mockito, IntelliJ, Maven, Kafka, Microservices technologies (Eureka, Feign, ConfigServer, Zipkin, Ribbon).

*LwamTech Solutions LLC, Alexandria, VA, Full stack Java developer, 12.2017 – 04.2020*

- Collaborate and develop software applications based on customer requirements, ensuring client satisfaction.
- Gathered and analyzed project requirements and converted them into technical specifications.
- Developed RESTful APIs in collaboration with front-end developers and utilized SQL frameworks such as Hibernate to interact with databases from Java code.
- Created reusable and scalable React components to improve code maintainability and efficiency.
- Developed Kafka producers and consumers, managing serialization, deserialization, and error handling.
- Designed Kafka system architecture, including cluster count, partitioning, topic naming, and replication factors.
- Implement strategies to horizontally scale Kafka clusters, handle increased data volumes, and get real time pipeline data, ensure high availability.
- Implemented and used microservices architecture for application development and continuous improvement activities.
- Wrote clean, efficient, and maintainable code that follows industry best practices and coding standards.

*Technologies Used:*

- Java, Spring Boot, spring framework, Spring MVC, REST, html5, CSS, JavaScript, React, redux, node.js, SQL, JUnit, Mockito, IntelliJ, Maven, Kafka, micro services technologies (Eureka, Feign, ConfigServer, Zipkin, Ribbon).

*Dahlak IT Solutions, Asmara, Eritrea, Java Backend Developer, 07.2015 – 08.2016*

- Participated in a software development team in charge of the development, testing, and maintenance of a software project focusing on back-end services.
- Implemented numerous software products while ensuring scalability, reusability, and reliability.
- Developed a modular monolith Custom School Management System and startup, that can be implemented on different schools with minor modifications.

*Technologies Used:*

- Java, Spring, Spring MVC, Spring Boot, REST, SQL, JUnit, IntelliJ, Maven, Component-based Architecture.

## ACADEMIC PROJECTS

*Project: Course Registration System, Backend Developer*

Designed to simplify and automate the process of registering for academic courses. This allows students to search for available courses, view course descriptions and prerequisites, select the courses they wish to take, and register

for them online. Also allow students to view their schedules, drop or add courses, and manage their academic records.

- Implemented and integrated Kafka to manage the messaging between different microservices.
- Created microservices system, such as student course registration, processing requests, and notifications.
- Ensured that the system is reusable by designed components that can be easily integrated into other systems or modified to meet changing requirements.

*Banking Application, Back-end Developer*

- Designed and developed a reliable and scalable backend banking application using Microservices architecture. Developed robust APIs that can interact with other services. Utilized Java, spring boot, Hibernate, mongo db, JMS, Kafka, Zipkin.

*E-Library, Full-stack Developer*

- Developed the front end and back end of the E-Library application using html, CSS, Node.js, JavaScript, Java, Spring, and Hibernate. The app is a digital platform that provides users access to electronic books. Utilized Thymeleaf, MySQL, IntelliJ, and Git.

*Online Dictionary, Full-stack Developer*

- Designed and implemented the user interface using html, CSS, jQuery, node, and JavaScript. Created and maintained an efficient database for storing data and providing fast retrieval capabilities. Utilized HTML, CSS, JavaScript, AJAX, Express, Node.js, PostgreSQL, Bootstrap, and JSON.

*Personal Portfolio, Full-stack Developer*

- Developed a personal portfolio in amazon web services using html5, MVC, React, Node, JavaScript, AWS services, and Lambda Function. Hosted on AWS and secured with SSL certification. Utilized S3, SNS, Dynamo DB, Route53, CloudFront, and continuous integration and deployment.

## EDUCATION

*Master's in computer science*
Maharishi International University, Fairfield, Iowa | 08.2021 - 10.2023
Cumulative GPA: 3.7

*Bachelor's in computer science (information technology)*
Eritrean Institute of Technology, Mai-Nefhi, Eritrea | 09.2012 - 06.2016
Cumulative GPA: 3.6

## CERTIFICATIONS

Full Stack Web Development, Washington University
AWS Cloud Practitioner, Certified Cloud Computing
Agile Scrum Master Certification, Agile / Scrum master