

SAMUEL WELDEMICHAEL

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JAVA DEVELOPER

Skilled and experienced Java developer with 6 years of experience. I excel in building enterprise-level web and desktop applications. Utilizing Java/J2EE, Spring boot, Hibernate, Restful, React, Microservices, MySQL, MongoDB, and Jenkins. Throughout the Software Development Life Cycle, I actively collaborate with diverse cross-functional teams. My history includes conducting in-depth project analysis, swiftly resolving software issues, and implementing projects with advanced frameworks, web services, and design patterns. I have developed soft skills that can help me communicate problems and solutions as well as interact effectively within a team. I believe in a lifelong learning process and always keeping an open mind when facing challenges.

**Software Development Life Cycle || Java Programming || Backend Development
Multithreading || Database Development || Analysis || Web Services || Data Structure ||
Design Pattern || DI, IOC || Microservices || CI / CD || Object Oriented Programming**

Languages: Java, JavaScript

Web: HTML5, CSS, jQuery, Thymeleaf, Bootstrap, Ajax, XML, JSON

Web Services: RESTful, SOAP, Microservices, JSON

Web/App Servers: Apache Tomcat, Node.js

Frameworks: Spring MVC, Spring Boot, Hibernate, Spring Cloud, JPA, Spring Security, AOP, Dependency Injection, unit test, React.js, NodeJS, Mockito, Express.js, Cloudera, Junit

Databases: MySQL, MongoDB, MS Access, Oracle, MS SQL

Design Patterns: MVC, Singleton, Prototype, Observer, Session, Session Factory, Abstract Factory, Command, Proxy

SDLC: Agile/Scrum, Waterfall, TDD

Tools: StarUML, IntelliJ, Eclipse, Vs Code, NetBeans, Visual Studio, Postman, GitHub, Maven, Gradle, Docker, Kafka, Kubernetes, RabbitMQ, ActiveMQ

Platforms: Windows, Linux

PROFESSIONAL EXPERIENCE

CAREER NOTE:

- Played key role in designing software, modules, and custom frameworks to support operations of different organizations including bank, mining, health, libraries, and rental companies.
- Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

Zara Mining Share Company, Zara, Eritrea • 05/ 2022 – 10/ 2023

Java Full stack Developer (Remote Position)

- Designed, developed, and implemented Java applications using Spring Boot, Hibernate, and RESTful APIs
- Utilized Liferay's development framework to build custom portlets that expanded the capabilities of a banking portal. The additional functionality drove a 15% improvement in user engagement with the portal.

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- Used Liferay's Service Builder to develop RESTful web services for a library management system, improving data access and integration with external systems. The RESTful services streamlined data handling between the library system and other applications.
- Implemented responsive front-end solutions utilizing HTML5, CSS3, and JavaScript frameworks like AngularJS.
- Integrated databases and ensured efficient data management with MySQL and MongoDB.
- Collaborated closely with cross-functional teams to deliver high-quality products within Agile environments.
- Conducted rigorous testing and debugging using tools such as JUnit and Selenium for quality assurance.
- Contributed to system architecture and participated in code reviews to maintain high coding standards.

Zara Mining Share Company, Zara, Eritrea • 10/ 2016 – 12/ 2021

Java Developer

Provided enterprise-level Technology solutions. Played key role in designing software, modules, and custom frameworks to support operations of different organizations including bank, mining, health, libraries, and rental companies.

- Designed and developed microservices-based applications using Spring Boot, REST API, and Kafka/RestTemplate/OpenFeign for efficient inter-service communication.
- Built a knowledge management portal with Liferay Portal to consolidate information and enhance cross-department collaboration.
- Leveraged Liferay's user management and security capabilities to implement access controls and permissions aligned with the company's strict compliance policies.
- Implemented Zipkin for distributed Microservices Monitoring.
- Developed high-volume, low-latency Java applications, optimized availability and performance of mission-critical systems.
- Provided training and technical support to team members and collaborated with external partners on technical matters.
- Collaborated with the Agile team throughout the entire SDLC, from requirements gathering and analysis to deployment and maintenance.
- Wrote high-quality, efficient, and testable code that aligned with design specifications and industry best practices.
- Performed thorough software analysis, debugging, and resolution of issues, ensuring robustness and stability of the application.
- Drove continuous improvements by proposing infrastructure designs, exploring new technologies, and suggesting alternative design approaches.
- Created design artifacts like use cases, class diagrams, and maintained code with Core Spring annotations.
- Implemented Spring Security using JWT and OAuth2 to ensure secure authentication and authorization mechanisms.
- Contributed to databases integration, design, development, and management, utilizing JPA/Hibernate for efficient object-relational mapping and DAO pattern for separation of concerns.
- Created and executed test cases using JUnit and Mockito, while managing code versioning and collaboration with Git.

Technologies Used: Java, Thymeleaf, HTML5, CSS, Bootstrap, JavaScript, jQuery, Spring Boot, Spring Cloud, Spring Security, Hibernate/JPA, RESTful, Web Services Docker, Maven, JDBC, MySQL, MongoDB, StarUML, GitHub, IntelliJ, GIT, Kafka, ELK Logging, Zipkin, Microservices, Postman, Junit, AWS

ACADEMIC PROJECTS

Maharishi International University, Fairfield, Iowa (2023):

- ❖ **Score Rewards System (Microservices), MIU (2023):** Developed a software system that allows school students to redeem their scores for rewards, enhancing student engagement and motivation. **Technologies Used:** Spring Boot, Spring Cloud, Spring Security, JWT, Kafka, Eureka Server, Spring Cloud Gateway, Open Feign, Circuit Breaker (Resilience4j), Load Balancer, Config Server, Zipkin, RESTful, RestTemplate, Tomcat, Mockito, MongoDB.
- ❖ **Flight Booking System, MIU (2023):** Designed and implemented a system that enables users easily find and compare available flights based on their preferred date, departure city, and destination. Book their desired flights using their full name, birth date, email, and phone number, ensuring ownership of their booking. Sign up with email and password to store information and flight details securely. Stay informed with real-time notifications about flight schedules and any changes. Take control of flight bookings, modify or cancel reservations effortlessly. **Technology Used:** Java, Spring Boot, Spring Security, Restful API, MySQL, JavaScript, React.js, HTML5, CSS, Bootstrap, Apache Tomcat, Junit & Mockito, Git, Maven, IntelliJ, VS code, SDLS Methodology.
- ❖ **Online Shopping System (Microservices), MIU (2022):** Collaborated with a team of three members to design and develop an advanced online shopping system utilizing microservices architecture. This application allowed users to browse available products, create accounts, place orders, and conduct secure payment transactions. **Technologies Used:** Spring Boot, Spring Cloud, Spring Security, JWT, Kafka, Eureka Server, Spring Cloud Gateway, Open Feign, Circuit Breaker (Resilience4j), Load Balancer, Config Server, Zipkin, Rest, Tomcat, Mockito, MySQL, MongoDB, Kubernetes, Jenkins, VS Code, IntelliJ
- ❖ **Hotel Management System, MIU (2022):** Designed and developed a Hotel Management application capable of viewing available rooms reserving rooms, and deleting reservation, and performing receptionist functions such as check-in and check-out. **Technologies Used:** Thymeleaf, Tomcat, HTML, CSS, Bootstrap, JavaScript, NodeJS, Express, Templates, Mockito, Spring Boot, MySQL
- ❖ **LIBRARY SYSTEM, MIU (2022):** Worked with five team members in design and development of library desktop application capable of registering members, administrating stock, and performing librarian functions such as books check-in / check-out and member base management. **Technologies Used:** java, Java Swings

EDUCATION

Master of Science in Computer Science

(Expected graduation June 2025)

Maharishi International University – Fairfield, Iowa

Key Courses: *Fundamental Programming Practices; Modern Programming Practices; Web Application Programming; Enterprise Architecture; Software Engineering; Software Architecture*

Bachelor of Science in Computer Engineering (2016)

Eritrea Institute of Technology – Mai-Nefhi, Eritrea