

## Amanuel Abraha

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### Software Engineer

An experienced Software engineer with 4+ years of expertise in modern software development life cycle (SDLC) techniques, proficient in developing applications from scratch that meet all project requirements and deploying them to production to ensure customer satisfaction. Capable of creating strong, easily understandable code using Java and JavaScript, as well as demonstrating expertise in RESTful web services, microservices, Spring, React, MySQL, MongoDB, Docker, AWS, Kubernetes, VS Code, and Git. Familiar with IOC and AOP and utilizing various design patterns to meet current industry standards, having implemented numerous projects.

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Software Development Lifecycle (SDLC) • Web Services • Design Patterns • SOA • Java Programming  
MS SQL • User Interface • Front End / Back End • OOPS • Database Development • Microservices  
Design Patterns • Object-Oriented Programming • Concurrency & Multi-Threading  
Data Structures & Collections • Dependency Injection • Deployment • AWS

**Languages:** Java, J2EE, SQL

**Frameworks:** Spring MVC, Spring Security, Spring Framework, Spring Boot, Hibernate, JPA, React js, Angular, Mockito

**Web:** JavaScript, TypeScript, Bootstrap, CSS

**Web & Application Servers:** Apache Tomcat, RESTful, Microservices, Web flux, Netty, graphql

**Databases:** MySQL, MongoDB, Postgres, DynamoDB, Oracle

**Cloud:** AWS, AZURE

**Design Patterns:** Singleton, Factory, MVC, Prototype, Observer, Façade, Adapter, Builder, CQRS

**SDLC:** Agile / Scrum, TDD

**Tools:** IntelliJ IDEA, Terraform, Docker, Kubernetes, Jenkins, Kafka, RabbitMQ, Maven, JUnit, Git, GitHub, Liferay portal

**Platforms:** Windows, Linux, macOS

### PROFESSIONAL EXPERIENCE

**Delta Tech, Asmara, Eritrea • March 2020 - April 2022**

#### Software Engineer

Design and develop scalable Video Streaming Application.

- Developed and maintained complex software applications using Java programming language.
- Designed and implemented RESTful APIs using Spring Boot framework in a microservice architecture.
- Designing and implementing scalable, resilient, and highly available microservices.
- Collaborated with cross-functional teams to develop scalable solutions and improve application performance. Experienced in Agile methodologies and participated in Scrum meetings, sprint planning, and code reviews.
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- The services use AWS to store, deliver, transcode, ingest, and extract metadata from video files.
- Followed *TDD* principles to write code that passes tests, ensuring better code coverage and fewer bugs.
- Implemented Apache Kafka to enable efficient event-driven communication between multiple services.
- Deployed Spring Boot application on *AWS*, demonstrating proficiency in cloud deployment and utilizing services such as *EC2* and *EKS*

**Delta tech, Asmara, Eritrea • February 2018 - March 2020**

#### Junior Java developer

Design and develop scalable Banking Application that enable individuals and business to manage their finance effectively.

- Developed enterprise-level applications using RESTful web services, Java, and Spring Boot.
- Designed and implemented the Account Management module, a critical component of the banking system.

- Collaborated as part of a cross-functional team to develop a banking system.
- Designed and developed user-friendly interfaces using HTML5, JavaScript, Angular and React.js to improve the user experience and increase engagement.
- Performed frontend and backend coding, backend testing, and software installation.
- Utilized Agile/Scrum methodology during the development process.
- Implemented Hibernate for ORM mapping and database persistence, enhancing the performance and scalability of the project's data storage solution.

### PROFESSIONAL PROJECTS

**Video Streaming Application:** The app provides a diverse range of content such as news, music, entertainment, sports, and programs centered around Eritrea and its global diaspora.

**Web Shop Application:** Worked in our company to design and develop a web shop application with functions for product inventory, customer registration, payments, and order. Implemented microservices with individual databases, Kafka messaging for interaction and updates, Zipkin for monitoring and tracing, docker for deployment and S3 buckets for saving big data.

**Banking System Development:**

*Contributed to the development of a secure and efficient banking system for Commercial Bank of Eritrea in Massawa. Key responsibilities included designing and implementing the Account Management module, which encompassed account creation, transactions, statements, and notifications. Collaborated with cross-functional teams to ensure system effectiveness. Utilized Java, Spring Boot, Kafka, and Microservices within an Agile/Scrum framework. This project provided valuable experience in modern application development.*

**Technologies Used:** Java, Spring Boot, Hibernate, Spring (Cloud, Cloud Gateway), MongoDB, Kafka Magic, Hystrix, Zipkin, Git, Sleuth, Logstash, Elasticsearch, Kibana, Tomcat, AWS, Agile/Scrum methodology, Microservice architecture, S3,EC2,EKS

### EDUCATION

**Bachelor of Science in Computer Science (2015)**  
Eritrea Institute of Technology – Asmara, Eritrea

**References:** references are available upon request.

**My Website:** [www.amanuels.com](http://www.amanuels.com)

**Certification:** AWS Certified Cloud Practitioner