

Abebe Adamu

Java Developer

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SUMMARY

- Proficient in designing and developing Microservices business components using **Spring Cloud and Spring Boot**.
- Experience in web applications using **Spring frameworks** and used several modules like, **Spring Core, Spring AOP, Spring Cloud, Spring Security, Spring MVC**.
- Developed application using data access or persistence layer using Object Relational Mapping (ORM) frameworks like **Hibernate, Spring Data JPA**.
- Experience with Cloud Computing Service environments like (**AWS**) Amazon Web Services (**EC2, S3, VPC, Cloud Watch, DynamoDB**).
- Experience in using Netflix cloud API's, Feign, Ribbon, Eureka.
- Actively involved in the **DevOps** streamlining process through **Jenkins CI and CD** Release Automation.
- Experience working with **Kafka** Queuing technology and **Elasticsearch** database.
- Experience working with Java 8 features such as lambda expression, functional interface, optional, Stream API and Collection API improvements.
- Experience creating several web applications using front end technologies like **HTML5, CSS3**.
- Very good understanding in maintaining version control by GIT.
- Used **Mockito, Spring testing** framework to develop test cases for various modules.

SKILLS

Java8, Microservices, Spring Boot, Spring MVC, Spring Security, Spring Cloud, Hibernate, Spring Data JPA, Elasticsearch, Apache Kafka, Postgres, Oracle 12c, h2database, React, HTML, SQL, XML, CSS, Assembly, Sublime, MS Office, Linux, Ubuntu, Putty, MS Word, Android Studio, bash, shell, Data structures, Algorithms, GitHub.

PROJECTS

Bart & Associates, LLC

July 2023 - Present

Application Developer

Project: Homeland Security

Description:

Bart & Associates (B&A) headquartered in McLean, VA, is a systems integrator of information technology solutions which provides strategic, enterprise, application, and technical infrastructure solutions, including customized and Commercial-Off-The-Shelf applications. Their service lines include Human Capital Management, Operations & Enablement, Integration & Analytics, Modernization & Transformation, Agile Delivery, and Certified Hosting.

Responsibilities:

- Developed and maintained mission-critical applications for government agencies, ensuring compliance with security and privacy standards.
- Collaborate with cross-functional teams to gather requirements, analyze user needs, and design efficient software solutions.
- Implement and optimize database structures, queries, and procedures for data retrieval and manipulation.
- Conduct thorough testing to identify and resolve software defects, ensuring high-quality deliverables.
- Provide technical support and troubleshooting for applications in a government context.
- Conducted code reviews, mentored junior developers, and promoted best practices in Spring Boot development.
- Used datatypes like Mono and Flux from Spring WebFlux to create a non-blocking asynchronous reactive API.
- Implemented RESTful APIs and microservices architecture to support modular and maintainable codebases.
- Used Hibernate ORM tools which automate the mapping between SQL databases and objects in Java.
- Used CI/CD pipelines with the help of Jenkins, Docker, Kubernetes with OpenShift as the container platform.
- Tracked the performance of the app using Splunk by gathering data from Spring Actuator, Log4j.
- Involved in writing the JUnit 5 test cases as part of unit testing, used Mockito framework.
- Used Git as source management.

Xion Computing PLC- Remote

March 2021 – July 2023

Freelance Java Developer

Project: Web

Description:

Xion Computing is an Addis Ababa-based custom software development provider with profound technical expertise in website design and development, web and intranet applications, internet marketing, and various business consulting solutions. I specialized in developing microservices for client applications such as Hotel Management, Manufacturing ERP Systems, Property and Rental Management, Wholesale & Retail, utilizing Spring Boot and Spring Cloud technologies.

Responsibilities:

- Developed various microservices for client **applications** such as *Hotel Management, Manufacturing ERP Systems, Property and Rental Management, Wholesale & Retail* using **Spring Boot** and **Spring Cloud** technologies.
- Used Spring Security for securing the REST endpoints and to provide authentication & authorization using tokens to enhance system security.
- Leveraged J2EE/Java in back-end development with enterprise architecture.
- Designed and developed JSP pages using Spring MVC framework and created Spring MVC components like Dispatcher Servlets, configure request mapping annotations in controllers, view resolver components.

- Used Spring Boot for building applications along with Spring initializer and bootstrapping the build configuration for a Boot-based web application.
- Applied Java 8 features such as lambda expression, functional interface, optional, Stream API and Collection API improvements.
- Used Hibernate to persist and retrieve data from database and wrote hibernate queries (HQL), Hibernate Caching, Hibernate Transactions.
- Wrote SQL queries to generate various reports and CRUD operation in DAO layers.
- Worked with Docker to deploy Microservices in modern containers to increase Isolation.
- Used Git for version control and Jenkins for Build and deployment.
- Involved in doing unit testing and writing test cases using Junit and Mockito Framework.

HCL America – Atlanta, Ga
Associate Developer

Jan 2019 – Feb 2021

Description:

Synchrony Financial is a consumer financial services company headquartered in Stamford, Connecticut, United States. The company offers consumer financing products, including credit, promotional financing and loyalty programs, installment lending to industries, and FDIC-insured consumer savings products through Synchrony Bank, its wholly owned online bank subsidiary.

Responsibilities:

- Developed a microservice for Synchrony application such as decision maker module using Spring Boot and Spring Cloud technologies, Spring MVC, Hibernate, Restful services with good quality of code.
- Used JWT Spring Security for securing the REST endpoints and to provide authentication & authorization.
- Used API Getaway to handling distributed load, Ribbon for load balancing.
- Developed application with fault tolerance using Circuit Breaker pattern.
- Worked on Apache Kafka messaging system to develop publisher and subscriber applications.
- Used Elasticsearch database to store information about the products and catalogs details.
- Used Spring Data JPA to create repository classes for database transactions.
- Implemented Logstash for monitoring the application logs and stored in Elasticsearch.
- Utilized Spring transaction to manage distributed database transactions for the application.
- Building application with JS frameworks such as **React**.
- Expertise on Core Java Technologies like Multithreading, Collections and Exception handling mechanisms.
- Speeding up Existing Applications with a Cache services using **Redis** Cache.
- Developed test cases throughout the application by using JUnit and Mockito Framework.
- Worked with Docker to deploy Microservices in modern containers to increase Isolation.

- Implemented continuous integration and automated using Jenkins, code quality analysis using SonarQube.
- Excellent implementation knowledge in cloud technologies like Amazon Web Services (AWS) such as EC2 instances, S3 buckets, Elastic Beanstalk, Dynamo DB.
- Implemented logging system for Microservices using slf4j.
- Used Git for storage repository and Maven as build tool.

School Project– Marietta, Ga

Jan 2018 – May 2018

Java Developer

Description:

Travelport is a travel e-commerce platform focused on providing distribution, technology, payment and other solutions for the travel and tourism industry. My team was assigned to design a solution architecture associated with in-memory database that can scale up to 100 billion requests per month at associated peak usage, prevent single point of failure, provide faster response times and optimal load balancing.

Responsibilities:

- Created and updated documentation as needed concerning network, software, and hardware problems.
- Created use cases and developed UML diagrams- activity, sequence and class using Visio in line with product goals.
- Conducted research in memory database technology with a team of six students.
- Developed behavioral and non-behavioral requirements for a cache application that can scale up to 100 billion requests per month at associated peak usage.
- Designed high performance Data Caching mechanism using Hazel cast.
- Developed Application layer using Java and documented on GitHub.
- Won second place in best undergraduate project prepared by Kennesaw Department of Computing and Software Engineering.

EDUCATION

Bachelor of Science,

Major: Software Engineering

Kennesaw State University, Marietta, GA