**Kalab Reda**

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**PROFESSIONAL SUMMARY**

Passionate software engineer with 6 years of experience in designing, developing, and maintaining high-impact software solutions. Proven track record in contributing to complex, mission-critical projects for enterprise-level systems. Experienced in working with both small and large teams across multiple projects and companies. Committed to staying updated with emerging technologies.

**EXPERIENCE**

**HireArt December 2023 – June 2024**

*Full Stack Java Developer Irving, Texas*

* Developed new features and maintained a highly scalable and robust platform built with Java 11, Spring Boot, Angular 15, and AWS, serving a total of 1.9 million users per week.
* Diagnosed and resolved technical issues, including performance bottlenecks and bugs, by employing thorough debugging and problem-solving strategies, resulting in a 7% improvement in application performance and a 2% reduction in bug-related incidents.
* Developed complex functionalities with Java 11 and Spring Boot to support high-demand communication services.
* Applied design patterns to address complex challenges, developing solutions that facilitated easier future modifications and enhancements.

**Perago Information Systems August 2021 – November 2022**

*Senior Software Engineer Addis Ababa, Ethiopia*

* Led the development of multiple enterprise-level modules for the FDRE Public Procurement and Property Authority, automating the procurement of goods worth $2.7 billion to date, using Java 8, Spring Boot and, AWS.
* Spearheaded the development and creation of the startup code for microservices, which served as the foundation for the entire project and was utilized by 5 developers in a team.
* Managed database operations using PostgreSQL, optimizing queries and ensuring high performance and reliability.
* Mentored 8 junior engineers on coding standards, best practices, and methodologies.
* Managed and organized project tasks and issues using GitLab, facilitating efficient collaboration within the team.

**Perago Information Systems July 2017 – August 2021**

*Software Engineer Addis Ababa, Ethiopia*

* Pioneered the transformation of a costly native app into an Angular SPA, enhancing performance, user experience, and accessibility while reducing development and maintenance costs by 16%.
* Implemented microservices architecture with Spring Boot services, interacting through REST and Apache Kafka endpoints, deployed on AWS using Docker containers and Kubernetes.
* Built dynamic front-end applications with Angular v9+, applying MV\* architectural patterns, automated testing and deployment pipelines using Karma, and Selenium, which reduced testing time by 30% and increased software reliability.
* Developed and optimized web applications using Node.js with Express, implementing asynchronous code to enhance performance.
* utilized JS tooling like ESLint, and Webpack to streamline the build process and improve code quality.
* Worked extensively with Hibernate for database interactions, simplifying data access and reducing the need for complex SQL queries in our projects.
* Built 12 in-house UI libraries to create reusable components and minimize development time by 24%, and contributing to a robust and scalable code base using Angular.
* Implement Kafka producers and consumers to facilitate real-time, event-driven communication between microservices in a Java back-end deployed in the AWS cloud.
* Analyzed business requirements, and designed solutions for ECM migrations on AWS while working effectively with various stakeholders in an Agile/Scrum environment.
* Built RESTful APIs in Spring Boot to build efficient and scalable microservices, enabling seamless communication between different components of the application.
* Utilized Apache Kafka for managing large volumes of messages and implemented RESTful services to push messages to Cassandra, ensuring high-performance data processing.
* Developed over 500-unit tests to verify the functionality of back-end processing, connectivity and relational database interactions.
* Collaborated with cross-functional teams, utilizing Java, Spring Boot, Angular, and PostgreSQL to successfully implement 8 projects.
* Developed an authorization server in Spring Boot OAuth2 and implemented secure stateless authentication using JSON web tokens (JWT) to ensure service security.

**SKILLS**

* **Back-end**: Core Java, Microservices, Spring Boot, Alfresco, NodeJS, Spring MVC, Maven, J2EE
* **Front-end**: JavaScript, TypeScript, React, Angular, ES6, NGRX, Redux, Tailwind CSS
* **Web Services & servers:** REST API, JSON, XML, Apache Tomcat
* **Databases & Data**: SQL, NoSQL, MongoDB, PostgreSQL, RDS, JPA, Hibernate ORM, Elasticsearch
* **Software Engineering**: SOLID, SDLC, Design Patterns,OOP & OOD, Test-Driven Development (TDD), Behavior-Driven Development (BDD), Documentation, System Analysis, Algorithms, Data Structures, Code Review, Software Development, Software Product Development, Software Architecture, Software Design
* **Design Patterns:** MVC,Singleton, State, Strategy, Proxy, Command, Chain of Responsibility, Adapter, Observer
* **Testing & Frameworks**: JUnit, Karma, Unit Testing, Cypress, Cucumber
* **Cloud Platforms**: AWS Lambda, EC2, S3, Redis, RDS, API Gateway, CloudFront, Aurora, CloudFormation, ECS, EKS
* **DevOps & CI/CD**: Agile Scrum, Git, Bitbucket, Docker, Kubernetes, Jenkins, GitLab, JIRA
* **Messaging Systems**: Apache Kafka, Amazon SNS, Amazon SQS
* **Platforms**: Windows, Linux, Unix
* **Soft Skills**: Communication, Prioritization, Adaptability, Detail-oriented, Collaboration

**EDUCATION**

**Maharishi International University November 2022 - June 2025**

*Masters of Science, Computer Science Fairfield, IA*

**Adama Science and Technology University November 2013 - July 2017**

*Bachelors of Science, Computer Science Adama, Ethiopia*

**CERTIFICATION**

* AWS Certified Solutions Architect – Associate
* AWS Certified Cloud Practitioner