KOKOB WELDETENSAE

Senior Software Engineer

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PROFILE SUMMARY

Highly skilled Sr. Software Engineer with 10+ years of success driving development of state-of-the-art software, server side enterprise level applications, large scale distributed data processing across multiple platforms and environments. Expert in software design, software development, testing, code review and debugging. Advanced skills in Java, Scala, Apache-Spark, Python and related technologies. Core Competencies include :-

Software Engineering	Scalable System Design	Distributed Computing
Functional Programming	Software Architecture	Cloud computing

EDUCATION

Master of Science (MS), Computer Science   02/2014 - 05/2016
Maharishi University of Management, Fairfield, Iowa

Programming for Engineers, MATLAB / C++   01/2013 - 12/2013
Peralta Colleges, Oakland, CA

Bachelor of Science (BS), Electrical & Electronics Engineering   06/2006 - 09/2011
Eritrea Institute of Technology, Eritrea

PROFESSIONAL EXPERIENCE

Moody's RMS (Risk Management Solutions), Newark , CA   09/2020 - Present
Senior Software Engineer, Risk Assessment HD API.
Responsible for building, expanding and optimizing large scale micro service API endpoints. Develop scalable and maintainable APIs that supports model based analytical data computing engines.
- Implement multi-tiered functionalities with optimal storage and runtime algorithms using Java, Scala, Apache Spark, MySQL and AWS services.
- Leverage tools such as Kibana, Azure Build Pipeline and GitHub to streamline development.

HERE Technologies, Berkeley , CA   08/2017 - 08/2020
Senior Software R&D Engineer, Data Accuracy Engineering.
Responsible for designing, implementing, testing and releasing internal software tools that import, parse and publish data to facilitate the generation of data accuracy and reliability statistics.
- Implemented and maintained applications that utilize Apache Spark based in house framework.
- Developed Apache Flink based streaming data ingestion application.
- Consumed RESTFul web services to aggregate and build data for quality assessment

- Developed and deployed Java software artifacts in docker image, created and monitored AWS EMR clusters.
- Automated Integration test cases using shell script in Jenkins that ensured high quality code.

HERE Technologies, Berkeley , CA   02/2017 - 08/2017
Data Engineer, Data Accuracy and Reliability.
Responsible for the automation of map data collection using Java and Scala applications.
- Designed, implemented and deployed application that publish data to internal and external storage.
- Researched, designed and implemented Protobuf schemas that represent high definition map quality data.
- Built server-less application using AWS lambda function, api-gateway and s3 static web page.
- Performed data migration and data processing using shell-scripts on AWS EC2 instances and s3 buckets.

HERE Technologies, Berkeley , CA   04/2016 - 02/2017
Software Engineer, Reality Lens.
Responsible for developing, upgrading and maintaining map making and reality measurement Java applications.
- Designed and developed new features and services to automate internal operations of image blurring.
- Utilized AWS resources to migrate an application to use cloud-based storage to process input and output.
- Enhanced and optimized performance using multi-threading and multi core processing technologies.

WELLS FARGO, Fremont, CA   03/2015 - 04/2016
Java Web Developer, Tablet Investment Application
Responsible for optimizing and developing new features of a tablet application as a backend web developer.
- Implemented use cases of a tablet web application built with Spring MVC, Hibernate and SOAP services.
- Utilized tomcat server for local application deployment. Created and optimized dynamic JSP pages.
- Enhanced user experience by designing and implementing AJAX calls and http caching of several requests.
- Consumed a SOAP based Web service to fetch data and process according user interactions.

CERTIFICATION

Advance Your Skills as an Apache Spark Specialist	LinkedIn I Issued May 2021
Apache Spark Essential Training: Big Data Engineering	LinkedIn I Issued Apr 2021
Cloud Hadoop: Scaling Apache Spark	LinkedIn I Issued Apr 2021
Oracle Certified Professional (OCP)	Oracle I Issued Dec 2017