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OBJECTIVE

Collaborate and build scalable, distributed, fault tolerant applications and enhance my skills through open source contribution.

SUMMARY

- Experience in working with microservices, container and container orchestration platforms (Apache Mesos, Docker).
- Expertise in building applications which handle high volume of data and provide resiliency, fault-tolerance and availability.
- Equipped in writing code with functional programming paradigms and lazy loading (Java 8 Stream API, lambda, functional interface).
- Proficient in working with big data systems, NoSQL datastores.

EDUCATION

Arizona State University, Tempe, AZ, U.S.A. Jan 2015 – Dec 2016
Master of Computer Science (MCS). Overall GPA 3.5

University of Kerala, Trivandrum, Kerala, India. July 2009 - May 2013
Bachelor of Technology (B.Tech) in Computer Science and Engineering. Overall GPA of 3.5.

EXPERIENCE

Software Engineer III– Cisco, San Jose, California June 2018 - Present

➢ Cisco DNAC – Digital Network Architecture

- Contributed to a real time streaming platform to analyze, manage and troubleshoot networking devices.
- Full stack development with Java 8, Jax -RS, Apache beam, gremlin tinker-pop and elastic-search.
- Developed REST API's to extract device metrics from device platform.
- identified usage statistics, enhanced streaming workflows and implemented troubleshooting mechanism with monitoring tools.
- Implemented API to fetch real time issues generated by network devices.
- Proficiency with Apache flink, Apache beam, kubernetes, elastic-search, Java 8

Software Engineer II– Orion Health, Scottsdale, Arizona Dec 2017 – June 2018

➢ Business Intelligence & Analytics

- Enhanced medical analytics platform developed using Apache Spark Streaming, Scala, Java 8 and elasticsearch.
- Implemented ETL jobs which aggregate meaningful attributes from healthcare data.
- Built a stable platform which handles high volume of real time data and provide metrics for the end user.
- Programming in Apache Spark using Dataframes, Datasets, RDD, and DStreams.
- Well acquainted with git source control system, jira issue tracker, Jenkins pipeline and amazon web services.

Software Engineer I– Orion Health, Scottsdale, Arizona Jan 2017 – Dec 2017

➢ Business Intelligence & Analytics

- Contributed to a medical analytics platform developed using Apache Spark, Scala, Java 8 and elasticsearch
- Rest API development using Java 8, J2EE, JAX-RS, REST services
- Front end user interface development using React, ES6, Webpack, Redux, Javascript
- Work closely with team on features and peer review other developer code.

Application, Demo and Development Intern – Alcatel, San Diego, California May 2016 – Aug 2016

➢ Microservices and cloud platform

- Developed REST'ful services in Go lang for an application in the IoT domain.
- Managed distributed cluster and helped production release via Docker image.
- Proficient in application production and deployment using Apache Mesosphere, Apache Marathon and Docker machine.
- Developed skills in Linux virtualization using QEMU, KVM, libvirt.
- Used Amazon Web Services (AWS) / Elastic Cloud Compute (EC2).

Software Engineer – NeST Software – Currently acquired by Quest Global, Trivandrum, India Oct 2013 – Nov 2014

➢ Toshiba Medical Systems Corporation (PIMS Application Development & Support)

- Contributed software engineering expertise in the development of PIMS (Patient Information Management System) through all phases of software lifecycle, from requirements definition through successful deployment.
- Provided user requirements analysis, design and programming support for enhancement of PIMS application.
- Assisted many senior developers in creating quick fixes to bugs for the software workflow process.

- Developed troubleshooting skills through log analysis and built hands-on experience in implementing design patterns.

PROGRAMMING SKILLS

- **Programming Languages** – Core Java, J2EE, Go lang, SQL, C, C++, HTML, CSS, React JS, Node JS, R, Scala
- **MVC Frameworks -** Spring MVC, JAX-RS, ExpressJS, Gorilla
- **Familiar IDE's** – IntelliJ, Eclipse, Sublime, Visual studio, PyCharm, Vi, Atom
- **Big-Data & Cloud Technologies -** Apache Spark, Apache Mesos, Apache Marathon, Docker, Hadoop MapReduce

PROJECTS

➢ **SCALING COMPUTATIONAL GEOMETRY IN DISTRIBUTED PLATFORM - APACHE SPARK** Jan 2015 - May 2015

- Computational geometry simplified through distribution over cloud.
- Deployment in a cluster managed by 1 master and 3 slave nodes.
- Data Coordinate storage in Hadoop HDFS.
- Application developed in Java using spark libraries and spatial geometry operations implemented using JTS topological library.

➢ **MODELING DISCOURSE CENTRIC DATA (Java, JSP)** Jan 2015 – May 2015

- A personalized support application to improve the learning experience of users by modeling data from learning
- Forums. (Algorithm used - Topic Facet Modeling)
- Automatically detects conceptual topics from short amounts of texts present on posts (taken from stack overflow dataset).
- Uses D3 visualization to show analysis results & finds whether a post is valuable or not.

➢ **ANALYTICS DASHBOARD FOR TOPIC - POST SIMILARITY IDENTIFICATION (R, D3 Visualization)** Jan 2016 – Apr 2016

- Analyzing the Cross Validated forum content consisting of 14000 posts.
- Discovering the most frequently used topics and their relations.
- Identified significant posts through plots drawn based on cosine similarity between post – topic content.
- Web plot shows which user contributions are important.

➢ **WIKI GENERATOR (Express JS, Mongo DB, Node JS)** Jan 2016 – Apr 2016

- An application for generating wiki out of chat messages.
- Allows users to chat on numerous topics and show statistics for identifying quality information based on topics.
- Users can tag when sending a chat message and like other valuable messages. The like count is used for generating statistics.
- Wiki generation based on contents receiving likes greater than a threshold and wiki categorization based on tagging.

➢ **IDENTIFYING OPTIC DISORDER FROM RETINAL IMAGE (Python, Scikit)** Jan 2016 – Apr 2016

- Analyzed data set of optical images and classification done to determine if a given image attribute is susceptible to disease.
- Data set consists of attributes from optical image of patients.
- Used different classification techniques such as random forest classifier and AdaBoost classifier.
- Predicted disease from symptoms with 84% accuracy through data mining techniques.

➢ **10 YEAR US OPEN STATISTICS DASHBOARD (JQuery, Javascript, D3 Visualization)** Sep 2016– Dec 2016

- 10 year US Open championship analysis using D3 visualization
- Yearly graph plot shows all games sorted by year.
- Shows Error Statistics of opponents for each player when clicked.
- hover pie chart and histogram to know individual player statistics

ACQUAINTED OPEN-SOURCE PROJECTS

- Apache Mesos
- Mozilla Ichnaea
- Apache marathon
- Docker

COURSES

- Foundations of Algorithms
- Distributed Database Systems
- Distributed Software Development
- Software Security
- Semantic Web Mining
- Software Analysis and Design
- Data Mining
- Technologies for online learning
- Applied Cryptography
- Data Visualization