Jnana Sagar .K.R

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Education

June 2013 **B.E.** Computer Science and Engineering,
PES Institute of Technology, Bengaluru.
CGPA: 8.58 / 10

Technical Skills

Programming Languages	Go, Java, Python.
Databases	MySQL, Postgres, Neo4j.
Software and Tools	Docker, Kubernetes, Micro services.
Big-Data platforms	Apache Kafka - messaging service, Apache Spark & Flink - real time processing, Splunk and ElasticSearch – log analysis, Hadoop, Zookeeper, Logstash.
Development and Build tools	GIT, CVS, Jenkins, Travis.
Certifications	Certified Scrum Master.

Work Experience

Current March 2020 - Present	Software Development Engineer 2 at Amazon, Bangalore.
May 2018 - March 2020	Software Development Engineer 3 at SIXT - Mydriver, Bangalore.
August 2017 - May 2018	Software Developer at Riverbed, Bangalore.
Jul 2013 - Jul 2017	Engineer.IT Engineering at Cisco Systems, Bangalore.
Jan 2013 - Jun 2013	Intern. Tech Grad at Cisco Systems, Bangalore.

Achievements

- Rewarded with *Star Award,* for exceptional work in the team.
- Received multiple Connected Recognition awards for exceptional performance in various categories like customer focus, innovation and collaboration.
- Certified Scrum Master by Scrum Alliance.
- Promoted to grade 6 with in 1year and 6months of my work.
- Promoted to Software Development Engineer 3 in a year.

Professional Projects

Current March 2020 - present

Advertisement
Company: **Amazon**

Advertisement I'm part of the Amazon advertisement organization responsible for all the advertisement on Amazon.in. I'm part of the team responsible for an insights tools for the advertisers on the platform to take well informed measures to improve there brands performance and build customer base.

Programming Languages: Java.

Databases : Redshift, Mysql(RDS).

Responsibilities:
- Design and develop data engineering of PI reports.
- develop reports to help advertisers understand their product performance.

MAY 2018 - 2020 MARCH

Mydriver
Company: **SIXT**

Mydriver is aimed at providing on demand ride service to SIXT Customers. SIXT is well known for car rentals across the world. Along with on demand ride it would serve the complete transport solutions to its customers. I'm involved in building up the Roaming platform (which was later picked up by the UBER as well for the European markets) and Dispatching Platform, aimed to serve across all the verticals of Sixt.

Technologies: Docker, Kubernetes, Consul, Kafka, RPC, Protobuf.

Programming Languages: Go, Java.

Databases : Postgress, Elastic Search.

Responsibilities:
- Design and develop the Dispatch platform.
- Design and develop the Roaming platform.
- Design components to serve on demand rides across the globe.
- Work with local leaders to provide services by leveraging their resources.
- Develop components to integrate with 3rd party environments.

AUGUST 2017 - MAY 2018

Service Delivery Platform
Company: **Riverbed**

Helps service providers manage their infrastructure more efficiently and move towards higher-value and more differentiated services. With SDP, service providers can create a high value and heavily customized service blueprint in days, not months.The platform provides *Network as a Service*.

Technologies: Docker, Kubernetes, Consul, Nomad, Yang Data-modelling, Sysrepo, Netopeer2, NATS, RPC, Protobuf.

Programming Languages: Go & Shell scripting.

Responsibilities:
- Develop various modules of the core platform.
- Develop service packs for the platform.
- Evaluate PAAS platforms like Tsuru.
- Make use of Kubernetes orchestrator.

FEB 2014 - JULY 2017

Data Analytics Platform
Company: **Cisco**

Build a platform that enable applications or operations teams within Cisco IT to consume Infrastructure data in a quick and reliable way. The platform also provides batch/stream analytics capabilities to help teams derive action- able insights out of the data from mulitple sources. The project was aimed at building a platform that can enable the Infrastructure Operations teams to reduce the Mean Time to Detection and Resolution of outages.

Technologies: Spark, Kafka, Druid, HDFS, Logstash, Zookeeper, MySQL, Puppet, Splunk.

Programming Languages: Java & Python.

Responsibilities:

- *Spark java applications* to process real time events.
- Development and maintenance of *java REST API's* for consuming data from Druid.
- Evaluation between Apache Spark and Flink to find the best suitable platform for real time processing.
- *CI / CD* Streamline build and deployment of modules.
- Set up and maintenance of Druid platform.
- Collectors to aggregate events from a source and publish them on Apache Kafka to be consumed later.
- A frontend application in Angular2 for auto provisioning of an event source (producer and consumer).

Stretch Projects

Neo4j	Research on advantages of graph database over traditional RDBMS and published a blog within Cisco.
Java Mbeans	Implement java Mbeans for couple of projects to provide runtime monitoring at java thread level in distributed computing.
RabbitMQ and Erlang	Setup message bus using RabbitMQ and Erlang for voice essentials in Estore.

Academic Projects

OPENSIM

Final year project, in which we simulated the behavior of OpenStack cloud architecture (an open-source cloud architecture). The aim of the project was to help experiment with the OpenStack architecture before deploying it on the hardware. This application can be used to finalize better setup of Openstack according to the need. It is cost efficient, as testing the various tweaks to the architecture on the hardware is costly. This project dealt with Compute, Networking, Load distribution and various other important aspects of OpenStack; and its simulation to the best possible calculations. We were awarded with the top grade for this project. Currently this project is being continued by our juniors at PESIT and is being submitted to various technical journals.

FORECASTING CROP YIELD USING REGRESSION ANALYSIS

5th semester project - It is regarding the distribution of the cultivation of various crops all over the country in a structured manner and monitoring these cultivation's periodically. In this project, we addressed the handling of adverse situations effectively; for this we had used the data from past couple of decades and came up with a solution using *Regression analysis method*. We had used C language and MYSQL to analyze and store the data.