Sudev A. C.

CONTACT INFORMATION

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AREAS OF INTEREST

Big Data, Distributed Systems & GNU/Linux

EDUCATION

National Institute of Technology Calicut — *Calicut, Kerala, India*
B.Tech, Computer Science and Engineering — *July 2010 – May 2014*

SKILLS

Programming: Python, Scala, Shell Scripting, R
Distributed Computing: Apache Spark, Kafka, Zookeeper
Databases: HBase, Redshift, Hive, Cassandra
Big data platforms: Cloudera, AWS Big Data Stack

INDUSTRY EXPERIENCE

Flipkart — Bangalore, Karnataka
Position: Senior Data Engineer — *January 2018 – Present*

Planning platform — *January 2018 – present*
Summary : Planning platform for business to create/iterate supply-chain plans
Technologies : Apache Spark, Apache Airflow, Dropwizard
Responsibilities :

- Understanding business process in creating a plan for supply chain and translating them to Spark jobs
- Implemented Airflow based scheduler to run plan workflows
- Driopwizard server to support the planning UI
- A commons library based on BPMN(flowable) to define and run planning domain workflows

Goibibo.com — Bangalore, Karnataka
Position: Senior Data Engineer — *September 2015 – January 2018*

Data Infrastructure — *September 2015 – January 2018*
Summary : Design and maintain data infrastructure.
Technologies : Apache Kafka, Spark, HBase, Hadoop, Flume, Solr, Zookeeper, AWS Big Data Services
Responsibilities :

- Was responsible for designing/maintaining data infrastructure to collect and store realtime/batched datasets from Goibibo servers for multiple use cases
- Researched on many open source and AWS solutions and designed data infrastructure for Goibibo
- Implement data engineering use cases in big data platform

Dynamic Discounting — *November 2016 – January 2018*
Summary : A micro-batched dynamic discounting engine for Goibibo Hotels Platform
Technologies : Spark, Python/Scala, Redshift, Kafka
Responsibilities :

- Design end-to-end discounting engine for Goibibo right from the data collection to applying the discounts onto Goibibo API datastore
- Implement collectors to capture all data points happening around hotels product, data points were logged to Kafka in realtime and some were micro-batched to S3 store

- Spark/Redshift was used to clean, transform, apply revenue rules and machine learning techniques on collected data to get optimum discounts for all Hotels
- Design the reporting frameworks to monitor performance of rules/algorithms and a feedback loop to correct rules using metrics like conversions and net margins
- Transform data and store for multiple use cases like reporting, production API's datastore and to power realtime feeds to customers as well as sellers

Fare Alerts *September 2015 – Dec 2016*
Summary : Notification system to alert users for changes in Airline fares.
Technologies : Python, Kafka, Cassandra
Responsibilities :
- Implemented a system to listen to terabytes of the Airline Fare changes happening in a day and to take actions like user notifications, cache updation etc
- Scale the system to cope up with the data velocity and size

EY LLP Trivandrum, Kerala
Position: Big Data Associate *June 2014 – September 2015*

Data Harvester *Jan 2015 – present*
Summary : Apache Spark application to harvest valuable information from public filings
Technologies : Apache Spark, Python/Java, MongoDB
Responsibilities :
- Implement Apache Spark application to process real-time stream of financial filings(SEC) harnessing in-memory processing capabilities of Apache Spark on Hadoop/YARN

Indoor Positioning system *March 2015 – present*
Summary : A network of Raspberry Pi capturing wifi signal strengths to position any wifi enabled device within a building.
Technologies : Python, Kismet, Linux
Responsibilities :
- Mentor interns to create a network of raspberry pi and train them on python

Academic Projects

Experiments with Minix 3 operating system NIT Calicut
Supervisor: Dr. K Muralikrishnan *August 2013 – May 2014*
Technologies: Minix 3 operating system, Minix File System, C
Implementation of immediate files in Virtual filesystem of Minix 3 operating system. Immediate files are small files accommodated in the inode itself instead of allocating a disk block.

High Performance Computing & Virtualization in the Cloud NIT Calicut
Supervisor: Dr. Vineeth Paleri *December 2012 – January 2014*
Technologies: Eucalyptus Cloud, Rocks Cluster, Shell Scripting, Linux Networking
Setting up a scalable private cloud in the campus using open source tools like Eucalyptus and Rocks, capable of high performance computing and virtualisation. A cloud alternative for Computer Science programming laboratory and provides IaaS for student community in campus.

Responsibilities Held

- Organizer & Web Developer at TEDxNITCalicut
- HPC Cluster Administrator at Biocomputing Research Laboratory, NIT Calicut
- Evangelist, member of core team FOSSMeet and server admin at FOSSCell(NIT Calicut Open-source community)

Awards

Best Debutant for Goibibo, 2016
Super Achiever for Go-MMT, 2017