Sudev A. C.

CONTACT INFORMATION

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AREAS OF INTEREST

Big Data, Data Science, Distributed Systems & GNU/Linux.

EDUCATION

National Institute of Technology Calicut *Calicut, Kerala, India*

B.Tech, Computer Science and Engineering *July 2010 – May 2014*

- *Relevant Courses*: Data Structures & Algorithms, Design & Analysis of Algorithms, Theory of Computation, Computer Networks, Operating Systems, Compilers, Cryptography & Computer Security, Natural Language Processing, Data Mining.

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

Goibibo.com Bangalore, Karnataka

Position: Senior Data Engineer *September 2015 – Present*

Data Infrastructure *September 2015 – present*

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 – present*

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.
– Implement a python client to capture all wifi data packets using kismet and push them to database and a algorithm which can position devices correctly using wifi signal fingerprints collected as training data.

Market Trigger *June 2014 – Dec 2014*
Summary : A cloud based application for triggers and insights relevant to EY's market.
Technologies : Python, R, Linux
Responsibilities :
– Design and implement data mining techniques in Python and R to gain market triggers from social media and news/rss feeds.

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