
EMPLOYMENT

Software Development Engineer	Robert BOSCH Group	Sept 2019 - Present
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- Working as a data engineer of Automotive Electronics Team, design and built services that let the user view and keep a track of manufacturing units, which is a key factor in deciding the performance of a plant.
- Providing real time analytics to the end users using the incoming streams from camel adapters.
- Introduced MES and MWS mechanism for scrape reduction in manufacturing plants, resulting in almost 15% increase in throughput. This trustable base is used for manufacturing efficiency evaluation.
- Developed an automated O/1 ETL process to load updated data into oracle database from kafka streams developing a fault tolerant system for data tracking reducing resource usage by 10%.
- Created a product DroneScan, used in inventory management by capturing barcode data and streaming the videos frame-by-frame by a drone resulting in almost 50% increase in throughput.
- Technologies: Spark, Spark SQL, Hive, Hadoop, Docker, Jenkins, SBT, Regression, HBase, PowerBI (basic)

Software Development Engineer, Intern	Robert BOSCH Group	Jan 2019 - June 2019
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- Task was to design an efficient data model (in Python) to store company specific data in MongoDB.
- Was able to create multiple possible designs. Found the cost of querying and efficiency for each design, and the best design was around 20% faster than the traditional MySQL DB that was in use to store the data.
- Developed Alerting tool for Performance Demand Pool (PDP) components. Used by Performance Engineering team to monitor burn, clicks and bidding process.

Software Development Engineer, Intern	Bharat Electronics, New Delhi	Summer 2017
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- ETL task to design an efficient data model (in Python) to ingest sensor data into Hive after cleansing.
- Prepared analytics ready data from unstructured data received from assembly line functions.

Languages and Technologies

- Programming Languages - Java, Scala, Python, JavaScript (basic)
- Operating System - Linux, Windows, Mac OS
- Database - MySQL, Hive, MongoDB, HBase
- Frameworks and tools – Apache Spark, Hadoop, IntelliJ IDEA, Sonar, Jenkins
- Cloud Frameworks – Microsoft Azure, AWS
- Others – Git, Jira, sbt, Maven, Grafana, Apache NIFI, Solr, Machine Learning, PySpark

EDUCATION

Bhubaneswar, India	KIIT University	July 2015 - May 2019
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- B.Tech. in Computer Science and Engineering. CGPA: 8.75/10
- Main coursework: Data Structures, Design and analysis of Algorithms, Computer Architecture, Artificial Intelligence, Database Systems, Operating Systems, Software Engineering.

B.TECH. MAJOR PROJECT

- Automated behavior analysis of applications on Mobile Platforms. Use VM based introspection techniques to implement an activity monitor for mobile platform.
- Developed an efficient sentimental analysis feedback system. Used machine learning algorithms for classifying tweets based on their polarity using text rank algorithms.

ACHIEVEMENTS AND RESPONSIBILITIES

- Got Excellence Award twice in (Bosch), one given for best Fresher and another for DroneScan (product)
- Qualified twice for the ACM-ICPC Onsite Regional's at Coimbatore Site.
- 3-star programmer at CodeChef.
- Microsoft Certified Azure Data Engineer Associate.
- Microsoft Certified Azure Data Scientist Associate.