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Education

Northeastern University   San Jose, USA
Master of Science in Computer Science   (Expected) May 2021
Courses: Data Structures and Algorithms, Programming Design Paradigm,
Machine Learning, Computer Systems

National Institute of Technology Calicut   Calicut, India
BTech in Electronics and Communication Engineering   June 2013 - May 2017

Skills

Programming: Python, Java, NodeJS, ReactJS, Go, bash, C++, Scala, PostgreSQL, Cassandra, Mongo, Lucene.
Tools and Frameworks: GIT, Docker, Flask, Scikit-learn, Pandas, Kubernetes, Openstack, Apache Kafka, Apache Spark, Hadoop, JIRA, REST, Spring MVC
Operating Systems: macOS, Linux

Experience

Target Corporation, Bengaluru   July 2017-August 2019
Engineer

Adopted AGILE SCRUM methodology in all the below projects.
Metrics Ingestion and Prediction System
- Collaborated with Data Science engineers to research, design and build a big data platform using Spark and Scala to visualize real-time and forecast insights of business and technology metrics.
- Implemented Spark stream processing to process and analyze real time order data from Hadoop clusters.
- Designed and developed Machine Learning models using H20 and Spark to predict order volume, order revenue and page views for target.com.
- Configured and set up Grafana and Kibana pipelines for visualization of the ingested Data and predictions.
- Awarded **Monthly Award of Excellence** for outstanding contributions for the good of Target's guests and Team and making one global Team a reality.

Stability Insights
- Created a tool using Python and JavaScript that drives enterprise level stability trends and actionable insights across Target Technology Services to enable accountability and accelerate action.
- Engineered the unsupervised NLP analytical engine to gather the Incident descriptions and perform text mining and clustering using Affinity Propagation based on the time filters that users can select.
- Remodeled and automated the pipeline to analyze and compute 5000+ records under 5 seconds so that the user experience isn't impacted.
- Integrated the python analytical engine with drone, docker and Kubernetes which automated the deployment process.
- Awarded **Infrastructure and Operations Geek of the Month** for playing a pivotal role in ramping up the MVP for the stability insights initiative.

Stores Central
- Increased Operational Efficiency by building a full stack application using Go, NodeJS and ReactJS to isolate critical store issues and direct users to the right technology users.
- Implemented self-sorting to bring attention to the locations in the most pain.
- Automated the software deployment by building a CI/CD pipeline using drone, Docker and Openstack.

Publications

- **Emotion Sensing Using Facial Recognition**: The project implemented the task of facial recognition and was able to extract the important features of the face.Using Machine learning, the emotion associated with the face of each image was predicted. Presented at the 2017 International Conference on Smart Technologies for Smart Nation (SmartTechCon). [Publisher: **IEEE**]
- **Top 10 Finalist-Disrupt San Francisco 2019 Hackathon** (TechCrunch): Built a financial butler that analyses all your financial transactions, income and liabilities to make a profile on your spending pattern. Using Machine Learning, it is able to tell you the impact to your financial health for making certain unusually large purchases.