YASWANTH DUVVURU

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SKILLS AND INTERESTS

Languages	Python(3 yrs), Java(3 yrs), JavaScript, SQL
Technologies	Spark, Kafka, Hadoop, Spring, AWS-Lambda, Chalice, Spark ML, TensorFlow
Databases	MongoDB(NoSQL), InfluxDB, Neo4j(Graph), MySQL
Web Development	D3 js, Node js.

EDUCATION

Master of Science in Computer Science **Graduating in Dec 2019**
Stony Brook University, Stony Brook, NY GPA: 3.6/4.0
Coursework: Big Data Analytics, Distributed Systems, Machine Learning, Natural Language Processing, Computer Vision

Bachelor of Technology in Computer Science and Engineering August 2012 - May 2016
Indian Institute of Technology Patna, India GPA: 7.42/10.00
Coursework : Data Structures and Algorithms, Computer Networks, Database Management System, Operating Systems

WORK EXPERIENCE (2+ YEARS)

Amazon (AWS) June 2019 - August 2019
Software Developer Intern *Python, AWS-Lambda, AWS-Chalice*

- Designed and developed a build-tool that can deploy **AWS-Chalice** applications internally across Amazon
- Integrated Amazon build systems and **AWS-Chalice** in accordance with Amazon internal guidelines and policies
- Worked on NAWS(Native AWS) pipelines to deploy internal **AWS-Lambda** applications developed using AWS-Chalice

Tricon Infotech July 2016 - August 2018
Software Developer *Python, Java, Kafka, MQTT, MongoDB, Hadoop, Spark, MySQL, Neo4j, D3js, Jenkins*

- Developed a **Spark application** to transform and migrate unstructured data from MongoDB to Hive.
- Re-designed and developed data pipeline to automate the process of **real time ingestion of sensor data**. Improved the update frequency from **6 hours to real time**.
- Developed a **PostgreSQL to Neo4j data migration** pipeline to migrate the data of academic publishers and their relationships. Used the same pipeline to maintain synchronization of data between the two databases.
- Built an **ETL system** that extracts information from raw data and uploads the transformed data to **salesforce cloud**.
- Designed and developed a dashboard that displays a **knowledge graph** of the academic publishers data from a graph database (**Neo4J**).

ACADEMIC PROJECTS

Automatic Catchphrase extraction from Legal documents TensorFlow, Python

- Designed and developed a deep learning model that can extract important phrases from legal documents.
- The model used various techniques of the Convolutional Neural Network(CNN)s to extract the catchphrases.
- Tested the model with UCI Legal documents data and outperformed the baseline model by 5 percent precision.

Fault-tolerant Key-Value Service GoLang

- Implemented Raft, in Golang, involving various features such as Log Replication, Leader Election.
- Developed fault-tolerant key/value storage system on the top of Raft ensuring strong consistency and availability.

Visa Trend Explorer,Visual Analytics Python, D3Js

- Designed and developed a dashboard that explains the trends of Visa applications for the United States.
- Developed various visualizations such as bar charts, choropleth map, stream graph, treemap, etc using D3js.

Course Projects | Machine Learning Python, PyTorch, Scikit-Learn

- Implemented Convolutional Neural Network(CNN)s to perform action recognition on images and videos using Pytorch
- Developed a Generative Adversarial Network (GAN) model to generate images of MNIST data using Pytorch.
- Designed and developed Logistic Regression, SVM, K-Means models from scratch using Python and Matlab

MapReduce GoLang

- Implemented the Map/Reduce function pair, map reduce task scheduler and failure handler in Golang.