

Surya Srikar Sirigineedi

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SUMMARY

Data Scientist with 3+ years of industry experience executing data-driven solutions to increase efficiency, data management, data quality, and utility of internal data processing. Experienced at using predictive models, creating data regression models, analyzing data mining algorithms and design to deliver insights and implement action-oriented solutions to complex business problems.

TECHNICAL SKILLS

PROGRAMMING: C#, Python, C++, SQL, JAVA.

DATABASES: MySQL, MS SQL, Mongo DB.

ML LIBRARIES: Tensor Flow, Scikit-Learn.

CLOUD: Microsoft Azure, Amazon AWS, GCP.

DATA VISUALIZATION: Pandas, Tableau, Matplotlib, Power BI, Excel.

Technical Analysis, Data Modeling, Excellent Communication Skills, Work independently Data Science with Neo4j, Presentation Skills

EDUCATION

FLORIDA INTERNATIONAL UNIVERSITY

Master of Science, USA May 2020 **GPA: 3.8**

JAWAHARLAL NEHRU TECH UNIVERSITY

Bachelor of Engineering, India **GPA: 3.7**

PUBLICATIONS

2020 The 4th International Conference on Compute and Data Analysis: [[Weblink](#)]

2020 GIS Conference "Internet enabled remotely controlled architecture to release water from storage units".

EXTRA CURRICULAR

AWARDS: Runner up for MITRE Shell hack 19 organized by Computer Science Dept.

POSITION: Worked as Vice President at IETE Student. Treasure for FIU Indian Club.

BUSINESS: Ran my own computer service center business during my college days.

GITHUB: <https://github.com/SuryaSrikar>

CERTIFICATIONS

- Data Science with Neo4j
- Data Science Essential Training
- Tableau Author

PROFESSIONAL EXPERIENCE (3+ Years)

RESEARCH ASSISTANT- FIU ARC, USA

Aug 18 – April 20

Exposure: Hadoop, Kubernetes, TensorFlow, Spark, Anomaly detection.

- Hardware event extraction on the live virtual machine running on XEN and KVM Hypervisor for machine learning modeling LSTM, achieved 89 % accuracy in classifying malicious and benign machines.
- Increased classification accuracy to **92.44%** using machine learning compared to traditional method's **75-80%** accuracy for process list.
- Read research papers and deliver insights on neural networks (**CNN, RNN**) supervised and unsupervised methods to improve performance.
- Took ownership as architect and developed a data pipelines health monitoring system using Azure Mobile Apps, Web API with team.

MACHINE LEARNING INTERN – CBS Interactive, USA

May – July 19

Exposure: Time Series Analysis, Big Query, Docker, Web Click Stream.

- Performed analysis on CBS website visitor's large datasets to get the insight on customer behaviors and different statistical analysis.
- Used predictive analytics such as machine learning and data mining techniques to forecast daily web traffic with a **2-5% RMSE**.
- Installed and supported entire **CI/CD** pipeline on AWS Cloud for app.

SOFTWARE ENGINEER – GKG Technology

Mar 17 – Aug 18

Exposure: MS SQL, Microsoft Azure, Data Pipeline, Web API, Angular 2.

- Updated intervention recommendation system, ETL validation of patient **risk management** dataset for **Inovalon USA healthcare**.
- Optimized the data processing steps and fix errors which has improved data quality, presented this accurate result to **business stakeholders**.
- Collaborated with different teams to build cloud data streamlining to process events for 30k IOT devices and Web UI for **Schneider logistics**.
- Built the data pipeline which collects unstructured data from multiple IOT clients and transformed into structured Relational data.

SOFTWARE ENGINEER – Zen Technology

Dec 14 – Mar 17

Exposure: distributed computing, mathematics, statistics, Physics.

- Increased accessibility and usability of customer data by redesigning data visualization techniques to include statistical graphs.
- Built an automate motion detection and calibrate application which has reduced 40% of manually effort, optimized network packet size.
- Hands on Windows application development and interacted with various simulator hardware components using socket programming, C#.

RESEARCH \ PERSONAL PROJECTS

NETWORK INTRUSION DETECTION SYSTEM: Deep Learning, CNN

Detecting the malicious activity in the network using the network encrypted payload using CNN Auto Encoder Decoder Neural Networks.

PHISHING URL DETECTOR: Natural Language Processing

Applied feature engineering technique on 60k URL records to extract the features to classify the URL is malicious or benign, achieved a **3.2% FPR**.

RECOMMENDATION SYSTEMS: Clustering, Classification

Recommender System is a system that seeks to predict or filter preferences according to user's choices using content-based approach.