Nisha Mariyal Radhakrishnan

• Mobile: +1 5408248616 • E-mail: nishamariyalr@vt.edu • https://www.linkedin.com/in/nisha-mariyal-37204234/

EDUCATION

Master's in Computer Science & Applications, Virginia Tech, USA (GPA: 4.0/4.0) B. Tech, Computer Science, SRM Institute of Science & Technology (CGPA: 9.57/10.0) Aug 2021- Present July 2015 – May 2019

TECHNICAL SKILLS

Languages: C,C++, Python, Shell scripting	Big Data: HDFS, Hive, Dremio, Tableau
DBMS: MySQL, PostgreSQL, HQL	Others: AutoSys, Jenkins, Bitbucket, Unity, Ansible Tower, Confluence, Rally Agile, Redis
Certifications: AWS Certified Cloud Practitioner (Nov 2020), Certified SAFe 4 Practitioner (Dec 2019)	

PUBLICATIONS

Traffic Signal Detection and Pre-Emption, International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.6, Issue 2, PP.944-956, June 2019.

- Traffic signal detection using Image Processing Algorithms YOLOv3 Object detection algorithm and Edge Detection
- Traffic signal preemption implemented using Arduino Uno microcontroller and ZigBee module

PROFESSIONAL EXPERIENCE

Software Engineer/Analyst, Transunion Global Technology Center LLP

Aug 2019 – Aug 2021

- Worked with TransUnion's regional teams in customer credit data analysis, data processing and in creating insightful reports.
- Worked on TransUnion's multi-terabyte analytics platform Shared Analytical Processing Environment (SHAPE) to load raw data of different regional applications on the Hadoop ecosystem using Hive.
- Involved in the backend development of Transunion's portfolio analytics product, PRAMA, using Hive, Spark and Python.
- Involved in the implementation of Data Quality framework using Python and Shell scripts
 - Developed a dedicated application for automating Data Quality metric collection across internal applications.
 - Populated the metrics collected to PostgreSQL and visualized the live reports using Tableau dashboards.
 - o Resolved historical data quality issues by restructuring schema with 100+ tables. Created customized views using T-SQL for audit.
- Contributed to the Global Credit Data Framework(GCDF) project by standardizing the codebase of various regional applications.
 - Involved in analyzing and building different schemas and ETL pipelines to align data across countries and across products.
 - o Responsible for improving the performance of data marts build by more than 40% using Python and Spark.
 - Reduced the time taken to launch new regional products by more than 50% using GCDF.
- Implemented an automation script that generates HQL DDL, thus reducing the team's manual effort in doing redundant tasks.
- Created shell scripts for automating batch processing on spark and hive-on-spark jobs and scheduled them using AutoSys tool.
- Involved in the production deployment of various TransUnion PRAMA products and internal applications.
 - o Includes creation of Change Requests(CR), regular resource/performance monitoring and log analysis for all deployed applications.
- Created multiple views in Apache Dremio from time-to-time to successfully provide connections to Tableau reports.
- Worked on performance tuning of Spark Applications for setting right Batch Interval time, correct level of Parallelism and memory tuning.
- Wrote an automation script for configuring multiple Email notification instances for important AutoSys jobs.
- Investigated, improved, and managed production issues with the engineering team and evaluated the merchant impact, saving \$40,000 for the client overall.
- Involved in creating effective test cases, flow charts, user manuals and other documentation for presenting to key stakeholders.
- Handled an integral part of the ongoing effort to migrate to AWS Cloud using AWS S3 and EC2.

Software Development Intern, Infosys Limited

Jan 2019 - May 2019

 Developed an end-to-end cell phone comparison web application called 'QuickPick' application that suggests cell phones to users based on factors like price, functionalities, brands etc.

Software Development Intern, Wyndham Grand Manama

Nov 2018 – Dec 2018

• Developed a module in the 'Sales Management System' of the internal sales team that helped in automating workflow, monitoring progress, and in exceeding sales targets.

ACADEMIC PROJECTS

- Empirical Analysis of J48, Hoeffding, Reduced Error Pruning and Random Forest Algorithms for Income Prediction and Magic Telescope Data Sets
- Mobile Application for "Human Activity Recognition using Smartphone Sensors" using ID3 algorithm