SUSHMITHA S N

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EDUCATION

Master of Science, Computer Science   GPA: 3.767   May 2021
University of Utah, Salt Lake City, Utah
Coursework: Advanced Algorithms, Visualization for Data Science, Data Mining, Artificial Intelligence

Bachelor of Engineering, Information Science and Engineering   GPA: 9.16/10   May 2016
Sri Jayachamarajendra College of Engineering, Mysore, India

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, PHP, Assembly, HTML, CSS
Scripting & Debugging: Dtrace, Unix Shell scripting, MDB
Platforms & Architecture: Windows, Unix, Solaris, SPARC, X86
Databases: MySQL, Oracle
Version Control: Git, Mercurial

EXPERIENCE

Graduate Teaching Assistant   **University of Utah**   Aug 2019 - Present
- Reinforce lessons presented by Professors, hold office hours, conduct lab sessions, code reviews, and grade student assignments.

Associate Software Engineer   **Oracle India Pvt. Ltd**   Jun 2016 - Jul 2019
- Enhanced new features in Storage Drivers such as SCSI Target Driver, MPXIO.
- Troubleshot the customer bugs, developed test cases, and scripts, setup complex lab to reproduce the customer issues, performed live debugging on the customer environment, found the root cause, and developed the fix.
- Developed unit test cases, performed unit testing and regression testing, and integrated the fix in Solaris Storage Device Driver.
- Verified the fix delivered internally by running a series of tests before QA.

ACADEMIC PROJECTS

Analyzing Chicago Taxi Trips Behavior via Data Mining   Feb 2020 - April 2020
- Developed a model to predict the average speed of the taxi trip by applying methods like Clustering, and Linear Regression and improved the model by finding out the most significant attributes that affect speed.
- https://github.com/SushmithaNataraj/Data-Mining-Project

Interactive Visualization of the USA air pollution   Oct 2019 - Dec 2019
- Developed an interactive website for demonstrating pollution trends in the US, which allows the user to visualize the trend in the various air pollutants.
- It also enables the user to compare the pollution level between any two selected states.
https://sushmithanataraj.github.io/Data-Visualization-Project/

Cloud-Based Internet of Things Android Application for Farm Management   Jan 2016 - Apr 2016
- Developed an application that allows farmers to manage activities related to farming from a remote location.
- The system used vibration sensors to sense the presence of wild animals and alert the farmers regarding any abnormal situation on the agricultural land.

Data Visualization using Classification and Clustering Algorithms   Feb 2015 - Apr 2015
- Implemented K-means cluster analysis algorithm for PCA-reduced pen digit data-set with 16 attributes and 10 classes using Scilab.
- Applied PCA to reduce the dimensionality of the raw IRIS dataset and used KNN classification for classifying the IRIS dataset using Scilab.

HONORS & ACTIVITIES

- Vice President Membership of IBCT Toastmasters for the term Jan 2019 - Jun 2019.
- Sergeant at Arms of IBCT Toastmasters for the term Jun 2018 - Dec 2018.