

VANESSA SINGH

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EDUCATION

Stony Brook University, New York Aug 2019 - Dec 2020

Master of Science in Computer Science

Relevant coursework : Analysis of Algorithms, Compiler Design, Natural Language Processing, Big Data Systems

Manipal Institute of Technology, Manipal, India Aug 2014 - July 2018

Bachelor of Technology in Information Technology (specialization: Data Analytics)

CGPA: 8.7/10

Relevant coursework : Data Structures, Algorithms, Object Oriented Programming, Big Data Analytics, Data Mining

SKILLS

- C++, Java, Python, R, PowerShell, SQL, Tensorflow, Keras, Hadoop, Hive, HTML
- Linux, Windows, vSphere, Veeam, Git

PROFESSIONAL EXPERIENCE

Deloitte US Offices in India, Hyderabad, India July 2018 – Aug 2019

Business Technology Analyst

- Worked for the Systems Engineering team
- Was responsible for one of the most complex modules - Healthcare Provider module
- Contributed to the testing and development of web services for Medicaid Systems in USA
- Prepared client deliverables and received appreciation from the leadership
- Used SOAPUI, IBM MQ, EDI

Philips Innovation Campus, Bengaluru, India Jan 2018 – June 2018

Software Development Intern

- Worked on automated spinning up of Utility Servers for frequent backups
- Used PowerShell scripting and VMware vSphere for an effective solution
- Reduced manual interaction time from 7 hours to 5 minutes

FOSSEE, IIT Bombay, India May 2017 – July 2017

Software Development Intern

- Interfaced OpenModelica with Arduino hardware kit
- Added features in OpenModelica which support different devices with Arduino
- Used C++, Modelica and documented functionalities
- <https://github.com/VanessaSingh/OpenModelica-Arduino-Windows>

PROJECTS

Lane Detection for Self Driving Cars June 2019 - July 2019

- Developed an automatic lane detection algorithm for cars using Canny and Hough image transforms
- Used Python and OpenCV for detecting edges of the lane
- <https://github.com/VanessaSingh/LaneDetection>

A Comparative Study of Different Association Rule Mining Algorithms Feb 2017 - Mar 2017

- Compared Apriori, FPGrowth, ECLAT algorithms on the basis of time and size of the data
- These algorithms try to establish association between variables
- Tested on different datasets like: Grocery, ICC Rankings, New York Restaurants
- Developed evaluation almost from scratch using Python
- <https://github.com/VanessaSingh/Comparison-of-Association-Rule-Mining-Algos>

Cat vs. Dog Classification Sept 2017 - Oct 2017

- Developed a deep neural network using keras and tensorflow
- Performed image augmentation, cleaning and preprocessing

Beats, Online Music Player Sept 2016 - Oct 2016

- Developed an interactive online music player using HTML, CSS, SQL, PHP
- <https://github.com/VanessaSingh/ITT-Project>