ADITYA KALYAN JAYANTI

aj8582@rit.edu
aditya9517.github.io/
585-351-7855
https://www.linkedin.com/in/aditya-kalyan/
https://github.com/Aditya9517

Graduate student in Computer Science, seeking internship opportunities starting May 2019.

Skills

LANGUAGES
Python
Java
R

DATABASE
SQL Server
MySQL
CouchDB
PostgreSQL

WEB DEVELOPMENT
HTML5
CSS
Javascript
PHP
Mustache

OPERATING SYSTEM
MacOs
Linux (Ubuntu)
Windows

SOURCE CONTROL
Github

TOOLS
VMWare Fusion
Microsoft Office Suite
Rattle
Latex

CERTIFICATIONS
Machine Learning by Stanford University on Coursera.
VTC Online Training on Ethical Hacking
NIIT C, C++ & Data Structures
Computer Society of India (CSI)

Education

Rochester Institute of Technology Aug. 2017 to Dec. 2019
Master of Science, Computer Science
Coursework: Advanced Object-Oriented Programming, Computational Problem Solving, Introduction to Big Data, Algorithms, Big Data Analytics, Intelligent Systems, Database System Implementation.

RNS Institute of Technology July 2013 to July 2017
Bachelor of Engineering, Computer Science
Graduated with Distinction
Coursework: Data Structures with C, Object Oriented Programming with C++, Design and Analysis of Algorithms, Unix & Shell Programming, Operating Systems, Database Management Systems, Computer Networks, Information Network Security, Software Architecture.

Experience

Response Care Inc. Rochester, NY
Software Engineer Intern Jan. 2019 to Current
- Fixed bugs and production issues using the standard front-end stack.
- Worked closely with a team of UI developers and testers to implement UI modules.
- Created application layout/user interfaces by using HTML5, CSS3, Javascript, PHP, jQuery, and PHP.
- Involved working collaboratively through agile development.

Projects

Data Analysis of New York City Motor Vehicle Collisions Nov. 2018 to Dec. 2018
Skills used: Tableau, R, Python
- Used data mining techniques to uncover the trends in data between 2017 & 2018
- Developed charts using BI tools.

GPS Data Visualization on Google Earth & Convex Optimization Sept. 2018 to Oct. 2018
Skills used: Python, Numpy, Pandas, Scikit-learn, Matplotlib
- Used temporal sequential analysis to identify left-hand turns & stops signs.
- Identified the optimal path from a given set of routes.

Generating Optimal Paths for Orienteering Events Sept. 2018 to Oct. 2018
Skills used: Python
- Implemented an A* search algorithm to find an optimal path for a given set of points in Mendon Ponds Park (Rochester, NY).
- Built a cost function by considering the elevation difference across different terrains.

Data Analytics Aug. 2018 to Dec. 2018
Skills used: Python, Numpy, Pandas, Scikit-learn, Matplotlib
- Implemented Otsu's method for 1D clustering of vehicle speeds.
- Built a 1D classifier to maximize public safety & maximize trust for a data of vehicle speeds.
- Wrote a decision tree classifier program which classifies among cupcakes & muffins using weighted GINI index with an accuracy of 96.72%.

Exploratory Analysis of European Soccer Mar. 2017 to May 2018
Skills used: R, Rattle, SQL, SQL Server Management System
- The soccer database in SQLite was migrated to R/Rattle and Microsoft SSMS to perform data cleaning, transformation, visualization, and to perform the predictive analysis resulting in predicting the player position based on his ratings.
- The insights obtained from the predictive analysis were used in selecting teams for the Fantasy Premier leagues of selected countries with an average accuracy of 80%.

Implementations in Java Sept. 2017 to Dec. 2017
Skills used: Java
- Implemented Unix *find* command using Java.
- Built a java program to simulate a game Vanishing of the Trolls based on multi-threading & thread synchronization in Java.
- Implemented a client-server approach for the Hangman game.

Internet Of Things for Smart Cities Jan. 2017 to Apr. 2017
Skills used: JavaScript, Node-Red, JSON, IBM Bluemix
- Developed a system which manipulates sensor data into visualized applications.
- I developed an application which provides smart solutions to management of waste, reduce traffic congestion & make accurate weather predictions.

Awards

Rochester Institute of Technology · Graduate Scholarship May 2018
Obtained a 20% Graduate Scholarship

RNS Institute of Technology · Top 10 Project May 2017
Top 10 among 40 groups in the Department Of Computer Science.
Final undergraduate project based on 'Internet of Things for Smart Cities'.