Uteerna Koul

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EDUCATION

Indiana University, Bloomington, Indiana — ***May 2019***
Master of Science in Computer Science — GPA: 3.55/4.00

K.S Institute of Technology, Bangalore, India — ***June 2014***
Bachelor of Engineering in Computer Science and Engineering — GPA: 3.67/4.00

TECHNICAL SKILLS

Languages: Python, Shell, Java, C/C++
Web Applications: HTML5, CSS, PHP, JavaScript
Databases: MySQL, Oracle 10g
Operating Systems: Windows, Linux
Software: Ansible
Tools: Eclipse IDE, QuickBuild

WORK EXPERIENCE

OCLC, Dublin, Ohio
Technical Intern — ***Summer 2018***

- Developed scripts using Ansible, python and shell to automate the ticket resolution process performed by the team.
- Collaborated with different teams to gather their requirements and feedback on the whole automation process.
- Created several python libraries and integrated them with Bash, Ansible and QuickBuild to deploy the workflow.

Infosys Limited, Bangalore, India
Senior Systems Engineer — ***October 2016 – May 2017***

- Developed shell scripts for deploying Nagios, MySQL and Chef on the Linux servers.
- Collaborated with a team of 20 members and completed the migration of servers within the estimated deadline.

Systems Engineer — ***August 2014 – September 2016***

- Created scripts using python and shell for automation of ticketing systems to reduce the manual effort spent on monotonous work which resulted in reducing the number of resources working on the project.
- Collaborated with a team of 3 people to integrate individually created modules.
- Incorporated requirements from the account team based on the feedback from onsite and offshore to improve the time taken to complete the operation.

ACADEMIC PROJECT

Parking Management System [HTML, CSS, PHP, JavaScript, MySQL] — ***Spring 2018***

- Created a parking management system for booking the parking spaces depending on the availability in real time.

Detecting Psychological Disorders Using Twitter Data [Python] — ***Fall 2017***

- Developed a code to fetch, analyze and classify tweets using various machine learning methods.
- Performed a 5-fold validation of the model and predicted the psychological condition of certain users.

Image Orientation Prediction [Python] — ***Fall 2017***

- Recognized orientation of image by implementing K-nearest neighbors and Ada-Boost Machine learning algorithms.

Parts of Speech Tagging [Python] — ***Fall 2017***

- Built a prediction system to recognize Part of Speech using Naïve Bayes, Forward-backward and Viterbi algorithm with an accuracy of 94%, 95% and 95.1%.

Using Fuzzy Logic Control for Traffic Management [Java] — ***Spring 2014***

- Implemented Congestion Free Router to prevent congestion collapse from undelivered packets, and Enhanced Core-Stateless Fair Queuing to compliment CFR by providing fair bandwidth allocations in a core-stateless fashion.

TEACHING EXPERIENCE

Graduate Teaching Assistant — ***Fall 2018***

- Worked with 5 other TA's to guide a class of 40 and 50 students in the software engineering and information infrastructure class respectively.
- Held office hours to guide the students in their assignment and projects.