**SNEHA TUTEJA**

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**Academic Profile:**

**University of Illinois at Chicago 2015- present**

(Specialization in **Human Computer Interaction)**

**Related Coursework:** Human Computer Interaction, Data Visualization and Visual Analytics, Video game design, Mobile apps development, Software Engineering

**Maharaja Surajmal Institute of Technology 2011 - 2015**

Bachelor of Technology (Computer Science Engineering)

**Relevant Coursework:** Software engineering, C++, Java, HTML, JavaScript, Computer Algorithms, Data Structures, Object-Oriented Programming Language.

**Academic Projects:**

* **Ongoing project: Visualization dashboard for ICU patients.**

It’s an ongoing project for my Graduate Assistantship. We are trying to build an interactive interface for real-time data of ICU patients.

* **Aerial Images of Chicago**

For this project, we decided to design a graphical interface to display the historical aerial images of city of Chicago. The designed interface works with Google earth map to showcase the neighborhood specific images for the given years. It also has a slideshow to present how these neighborhoods have emerged throughout the time.

https://bbcdn.githack.com/lsarha2CS441/cs424-project-3/raw/366d0b324ec015202509559f61ab9032301f19a7/index.html

Link to the video:

<https://youtu.be/CM993E7BciE>

* **Visualization dashboard for displaying Incarceration rate**

The project is Visualization dashboard that displays the Incarceration rate of United States from 1978 to 2014. The project is being made using D3 and Java script.

<https://bbcdn.githack.com/snehatuteja/visualanalytics/raw/9eeb62a1b22f52bf899c7388ae77333e4e49115c/index.html>

* **Developed a video game.**

The game has been made in Unity 3D. The player is being portrayed as teddy bear who needs to save a child from the monsters every night. The game has 5 levels and gives a chance to collect coins to buy different weapons from the inventory.

* **Conference scheduling application:**

The project was developed using java script and SAGE2 platform. It is used for scheduling conference rooms for various conferences. It is an application on SAGE2 platform that allows multiple users to schedule different conference rooms at the same time. SAGE2 is a remote collaboration platform developed in University of Illinois at Chicago.

* **Published a research paper on “A survey on Reduction of Load on Network” in Springer.**

This research project defines a method to reduce the load on networks which is due to the presence of web crawlers and inefficient search mechanisms. We found several possible loopholes in the current web crawling scenarios so one can come up with a novel approach to lessen the load on the network.

<http://link.springer.com/chapter/10.1007/978-3-319-11227-5_21>

* **Published a research paper on “A Novel Approach for Improving Results of Search Engine using Query Log, Support Factor and Clustering” in The International Journal of Science and Technology.**

This research project optimizes the results from a search engine to increase relevancy of the search results corresponding to a user’s query. http://www.theijst.com/wpcontent/uploads/2014/10/20.ST1410-047.pdf

* **Published a research paper on “Reduction of Load on Network using Compression Technique with Web Crawler” in** [**Advances in Computer Science and Information Technology (ACSIT)**](http://www.krishisanskriti.org/acsit.html) **journal.**

The research defines a new compression algorithm that will give a higher compression ratio and will minimize the bandwidth utilization while transferring the data via a network. <https://www.academia.edu/11684369/Advances_In_computer_science_and_Information_technology>page 201-203

**Work Experience:**

* September 2016 – January 2017: Worked as a Graduate Research Assistant in Biomedical Dept of UIC.
* Summer 2016 : Worked as a Summer Research Assistant in Electronic Visualization Laboratory for University of Illinois at Chicago
* 03/01/2014 – 03/31/2014: Summer internship at Uday Foundation, India. I mentored and taught under privileged children.
* 2013-2014: Part of organizing committee of MUN (Model United Nation). We organized inter college events for MUN conferences.
* 2011-2014: Tutored mathematics to high school students for 3 years as a part time job.

**Professional Certifications:**

* Certification in **Android App Development** from CMC Lim.
* Certification in **ASP** **Dot Net Framework** from IICE

Computer Skills:

* Programming Language C, C++, Dot Net, HTML, Java Script, C#, D3, CSS
* Database Microsoft Access, SQL server, MySQL
* Operating Systems Windows, Linux
* Software MS office, MySQL, Unity 3D

**Other Information:**

* Highly motivated and eager to learn new things
* Good communication and presentation skills
* Flexible, hardworking and positive attitude
* Excellent technical writing skills