Angad Singh

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Education

University of Toronto **Sept 2014 – May 2018**
Honors Bachelor of Science Specialist in Computer Science, Focus in Artificial Intelligence

Work Experience

Tata Consulting Services – Technical Application Analyst **Feb 2019 – Current**

- Placed as TCS contractor to the Royal Bank of Canada to work on their Anti Money Laundering Systems and Fraud prevention system to assist with development and support of the systems.
- Monitored the Cloudera Hadoop cluster and resolved any environmental failures and memory issues. Created SQL queries in DB2 and Hadoop to help find causes of issues.
- Created Scripts in Batch, Python, Shell to help automate daily tasks. This includes execution of SQL queries and the creation of Excel spread sheets detailing issues or irregularities in the system.

Evertz Microsystems – Project Engineer **May 2018 – Jan 2019**

- Created scripts to automate the pre-possessing and transcoding of assets using JavaScript and Python. Git was used as the primary version control manager for scripts
- Created and maintained the primary scripts for NBCU's non-linear delivery of assets to media service providers. This system utilized various transfer types such as Signiant and Faspex.
- Created targeted SQL queries, enabling powerful on-the-fly reporting of the system's state to stakeholders

Technical Skills

Languages:	Python (Expert), JavaScript (Expert), C# (Proficient), Java (Proficient), SQL (Proficient), Bash (Proficient), MATLAB (Prior Experience), C/C++ (Prior Experience)
Frameworks/ APIs:	Numpy (Expert), Pytorch (Proficient), React (Proficient), Node.js (Proficient), Blender (Prior Experience), Bootstrap (Prior Experience)

Publication

Creative Flow+ Dataset – MATLAB, Python, Bash **Sept 2017 – Jan 2018**

- Developed an optical flow dataset similar to MPI Sintel Dataset using the Blender Python API. The project was published as a part of the 2019 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) under the title of Creative Flow+ Dataset.
- Users would be able to create their own datasets with different cartoons and stylized effects. This data set can then be used with existing optical flow algorithms as training data or to test how well the algorithm generalizes.
- Created scripts in bash that would help users automate the process of rendering batches of Blender objects. In addition, created Python scripts using the Blender API to randomize the camera placement in the scene.
- Modified the Blender application in order to output the ground truth data required with the need for the UI. This required some modification of the blender code written C.

Academic Projects

Group Finder – JavaScript, React, Node JS **May 2018 – Sep 2018**

- Worked with peers to create a tool that would help students post their personal projects in order to find like-minded team members.
- Created a Mongo database to hold user data and theirs posts. Ensured that the web page was correctly pulling and posting data to and from the Mongo database.
- Developed front end UI using React for posting and viewing profiles. Collaborated with team members to improve the usability for the interface.