**SOM MATHUR**

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***SKILLS***

1. **Python, Java and C Programming**.
2. **Front end web Development**: HTML,

CSS, Bootstrap, JavaScript, jQuery, DOM manipulation, PHP

1. **Backend Web Development**: NodeJS, Express, MongoDB (Database).
2. Basic knowledge of commands in **MATLAB and GIT (version control)**.
3. Basic knowledge of commands in **SQL, PostgreSQL** and **Verilog(HDL)**.
4. **Android Development** (functioning of android studio).
5. Basic knowledge of **machine learning algorithms**- linear and logistic regression implemented using MATLAB.
6. **Data Structures** and **Algorithms implementation.**

***PROJECTS***

* **Web Development-** 
  + Styled (CSS, Bootstrap, SemanticUI) and deployed a **fully functioning website** (frontend and backend) called YelpCamp, with user authentication(passport), storing data in a Mongo DB and using the RESTful routing conventions.
  + **TODO list application** – Using jQuery (logic to edit list), CSS and HTML (Front end)
  + **Color game project**
    - Front end web application, involved the user choosing the right RGB color combination from a random collection of either 3 or 6 colors depending on difficulty of game
    - JavaScript and DOM manipulation(Logic), CSS and HTML (effects)
* **Python-**
* **Geocoder web application** using flask, HTML and CSS to read from an uploaded file and store useful data using the pandas data frame.
* Implemented **web scrapping** on a real estate website and store information in a csv file using the pandas data frame (code developed using Jupyter Notebook).
* Web cam **motion detector** application using OpenCV and plot important in and out timings using the bokeh.plotting module.
* **Desktop application** (with GUI- Tkinter module) to maintain a database of books and manipulate its details using basic SQL commands (sqlite3 module).
* **Data collector web application** using PostgreSQL and Flask.
* **Web maps** - plotting volcanoes on the west coast using the folium module.
* **Java-** Simple calculator application using android studio.
* **C programming-** Recursively traversing the file structure of a system and output its structure.

***WORK EXPERIENCE***

* **IT Technical Help (OISE Education Commons)-** Work-Study position at the University of Toronto **Current**
* **Private tutoring**- Lessons in python for children of ages 9-15 **Summer 2017**
* **Executive for web design for a club on campus September 2016- current**

***EDUCATION***

* **University of Toronto(2015-current*)-* Bachelor of Science in Computer Science,**

**Statistics**