Umang **Rajkarnikar**

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Experience

Software Developer Intern
SRK BUSINESS SERVICES

Toronto, Ontario
Jan 2020 - Present

- Created and deployed a website for the non-profit organization Voice to Them using HTML, CSS and JavaScript.
- Assisted in the development of multiple websites for various clients.

Camp Counsellor
TORONTO KIWANIS BOYS AND GIRLS CLUB

Toronto, Ontario
July 2017 - August 2017

- Initiated and monitored various activities for children in the summer youth program, and ensured that activities ran smoothly.
- Ensured that the needs of all members of the summer youth program were accounted for.
- Led a fundraiser with other camp counselors within the summer youth program and donated the profits $200 to Sick Kids Hospital.

Education

McMaster University
BACHELORS OF ENGINEERING - SOFTWARE ENGINEERING

Hamilton, Ontario
September 2019 - Present

Relevant courses:
- **Engineering Computation:** Development and analysis of algorithms. Utilized Python for the implementation of algorithms, as well as, the design and testing of computer programs.
- **Engineering Design and Graphics:** Gained understanding of various types of technical design and communication for engineers including solid modelling CAD, freehand sketching and simulation, visualization, and creation of engineering drawings. Worked with a team, and utilized computer-aided design (CAD) software to design a gear train and frame for a prosthetic hand.

Skills

Programming Languages: Python, C#, Java, HTML, CSS, JavaScript, VBA, MatLab
Software and Tools: Tableau, PowerBI, Selenium, Android Studio, Microsoft Excel, Microsoft PowerPoint, Microsoft Visio

Projects

Community Watch App
UOFT SCARBOROUGH HACK THE VALLEY IV

February 2020

- Worked with a team to develop a community safety app by implementing Geofencing API in which emergency services can drop a geofence around an area where a particular incident occurred.
- Utilized Android Studio and programmed in Java to develop the front-end of the app to create a Google-Map oriented app.

iROBO-LIFT
MCMASTER CAD DESIGNATHON 2020

January 2020

- Worked with a team to redesign the chassis for the iRobot Roomba vacuum cleaner to give it the functionality of climbing up the stairs.
- Applied concepts of technical design including solid modelling CAD, dynamic simulation, and visualization to compete the design challenge.

Functional Orthotic Device
MCMASTER UNIVERSITY

September 2019 - December 2019

- Worked with a team to create a functional prototype for a client that acts as a writing device. Solid modelling CAD was used during the assembly process.
- Applied various design approaches such as assembling different levels of prototypes and attending design reviews.

Institutional Database
PERSONAL

January 2018

- Created a database utilizing C# to manage, modify, and update school records.
- Applied concepts of bubble sorting, file input/output, and arrays to organize records.