# **Ribhav Kapur**

Computer Science Specialist from University of Toronto

#### **Personal Info**

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#### **Relevant Coursework**

Multi-Variable Calculus

Software Design

Theory of Computation

**Computer Organisation** 

Software Tools and Systems Programming

**Data Structures and Analysis** 

Introduction to Al

Introduction to ML

Introduction to Visual Computing

**Databases** 

Programming on the Web

**Numerical Methods** 

Algorithm Design, Analysis and Complexity

**Operating Systems** 

#### **Skills**

Python

Experienced

Java

Experienced

Experienced

HTML/CSS

Experienced

Javascript

Familiar

Assembly

Good

Swift

Good

## Languages

**English** 

Native Speaker

Hindi

Native Speaker

Bengali

Proficient

## **Experience**

present CEO and Co-Founder

Connct

- · A platform to help social media influencers increase reach and engagement
- · Received first investment offer in July for 100k

present Software Engineer

- Robotics for Space Exploration (RSX)
- · Currently working on GPS integration for the Mars rover we are developing using ROS Kinetic.
- Working with rtab map to map the surroundings of the rover as it traverses through terrain

present Teaching Assistant

Undergraduate Artificial intelligence Group

- · Working on the syllabus for an introductory AI course
- · Working on organising an Al hackathon at UofT
- present Computer Science Learning Community

Faculty of Computer Science - University of Toronto

- 1 of 38 to be admitted into the community from the entire faculty.
- Working on various projects and internships throughout the year.
- present Peer Mento

University of Toronto

· One of the few selected students to mentor other students in my Theory of Computation class.

Apr 2016 Head of Entertainment

Krayons for Kargil

- Organisation held an event to raise funds for the underprivileged in Kargil (India).
- Raised rupees 16 lakh (nearly \$30,000)

## **Education**

#### University of Toronto - Bachelor of Science

- 1. Computer Science specialist with a focus in:
- · Artificial Intelligence
- · Web and Internet Technologies
- Game Design
- 2. Minor in Mathematics

#### The Shri Ram School Aravali, India

- Indian School Certificate
- Graduated with a 92%

### Duke TIP

Was one of the 100 students from India to be selected for the Duke TIP program. I studied mechanical engineering the first time in India, and went to Georgia tech to do a short course on spacecraft design.

## **Projects**

Feb 2019 Security Drone

- Autonomous GPS enabled drone.
- Security drone to replace students who escort people on campus at night.
- Image processing on server to recognise and follow user.
- Aggression detection algorithm to sense danger and alert authorities.

Jun 2018 Virtual Trainer

- · Generates a workout for you.
- $\bullet$  Designed using a smart algorithm to hit every area and function of the muscle(s).
- · Working on 3d models to show exercise form in VR.

Jul 2018 Retro Fighter

- · Simplistic fighting game between 2 players.
- Implementation of a smart AI player using graph theory that is unbeatable.

Aug 2018 My Website

http://www.ribhavkapur.com

This is my website where I showcase all my projects, display my transcript and other test scores and have links to all my social media accounts including LinkedIn.

Sep 2018 Sound Sensitive LED Light Strip

- Detects sound frequency.
- Propagates a specific light colour based on the frequency in a wave form through a strip of LED lights.
- · Detects volume to adjust brightness.

# **Hackathons**

Feb 2019 MakeHarvard Top 5 for making the security drone mentioned above

Sep 2018 OrbisChallenge Hackathon Top 5 for writing AI that plays splix.io