

# Ribhav Kapur

Computer Science Specialist  
from University of Toronto

## Personal Info

Phone  
6477408459

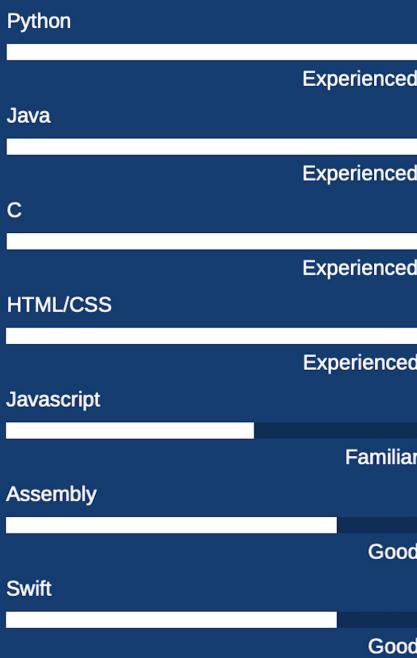
E-mail  
ribhav.kapur@mail.utoronto.ca

WWW  
<http://www.ribhavkapur.com>

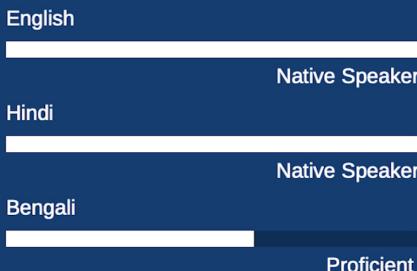
## Relevant Coursework

Programming on the Web  
Data Structures  
Introduction to Machine Learning  
Introduction to Artificial Intelligence  
Introduction to Visual Computing  
Numerical Methods  
Introduction to Databases  
Operating Systems  
Algorithm Analyses, Design and Complexity  
Software Development  
Software Design

## Skills



## Languages



## Experience

present	<b>Co-Founder</b> <i>Connect</i> <ul style="list-style-type: none"><li>• A tool for social media influencers to increase their following and drive engagement</li><li>• Recently received a \$100,000 investment offer</li></ul>
present	<b>Software Engineer</b> <i>Robotics for Space Exploration (RSX)</i> <ul style="list-style-type: none"><li>• Currently working on GPS integration for the Mars rover we are developing using ROS Kinetic.</li><li>• Working with rtab map to map the surroundings of the rover as it traverses through terrain</li></ul>
present	<b>Computer Science Learning Community</b> <i>Faculty of Computer Science - University of Toronto</i> <ul style="list-style-type: none"><li>• 1 of 38 to be admitted into the community from the entire faculty.</li><li>• Working on various projects and internships throughout the year.</li></ul>
present	<b>Peer Mentor</b> <i>University of Toronto</i> <ul style="list-style-type: none"><li>• One of the few selected students to mentor other students in my Theory of Computation class.</li></ul>
Apr 2016	<b>Undergraduate Artificial Intelligence Group</b> <ul style="list-style-type: none"><li>• Working in a team to develop a curriculum to introduce first and second year students to artificial intelligence</li><li>• On a team to organise Canada's biggest artificial intelligence hackathon</li></ul>
present	<b>Professional Fitness Trainer</b> <i>EFulcrum</i> <p>I am a personal trainer and nutritionist working with a startup from India.</p>

## 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	<b>Security Drone</b> <ul style="list-style-type: none"><li>• Autonomous GPS enabled drone.</li><li>• Security drone to replace students who escort people on campus at night.</li><li>• Image processing on server to recognise and follow user.</li><li>• Aggression detection algorithm to sense danger and alert authorities.</li></ul>
Jun 2018	<b>Virtual Trainer</b> <ul style="list-style-type: none"><li>• Generates a workout for you.</li><li>• Designed using a smart algorithm to hit every area and function of the muscle(s).</li><li>• Working on 3d models to show exercise form in VR.</li></ul>
Jul 2018	<b>Retro Fighter</b> <ul style="list-style-type: none"><li>• Simplistic fighting game between 2 players.</li><li>• Implementation of a smart AI player using graph theory that is unbeatable.</li></ul>
Aug 2018	<b>My Website</b> <a href="http://www.ribhavkapur.com">http://www.ribhavkapur.com</a> <p>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.</p>
Sep 2018	<b>Sound Sensitive LED Light Strip</b> <ul style="list-style-type: none"><li>• Detects sound frequency.</li><li>• Propagates a specific light colour based on the frequency in a wave form through a strip of LED lights.</li><li>• Detects volume to adjust brightness.</li></ul>
	<b>In Progress</b> <ul style="list-style-type: none"><li>• Working on a machine learning algorithm that takes different brain waves as inputs and detects emotion. (future plans to extend the project).</li><li>• Working on a machine learning algorithm to detect handwriting to help with assignments as opposed to using latex or microsoft word, etc.</li><li>• Intermittently making my own version of linux from source code.</li></ul>

## 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