

# Rinay Shah

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## ⚙ Skills Summary

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- Software enthusiast, most experienced in C, Java, and C#, with strong analytical, critical thinking, and debugging skills.
- Strong self-learner with a determined ambition of achieving success, and avidity for expansion of current skillset in a fast-paced work environment.
- Capable of leading and working within a team with multiple tasks at hand, ranging from software to hardware.

**Software:** C, C#, Java, Python, JavaScript, VHDL, MATLAB

**Tools:** Visual Studio, Visual Studio Team Services, Distributed Revision Control System(Git)

**Framework/Libraries:** p5.js, Bootstrap, jQuery, .NET

## 📖 Experience

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### Research Intern, Ryerson University

📅 May 2018 – Present

- Configured a Multiple-Kinect V2 tracking environment in C# by acquiring the joint skeleton data from four Kinects using Microsoft Kinect SDK 2.0. Used **TCP/IP** protocols and client-server network to send the joint data from multiple clients to a single server.
- Work with graduate students to implement Kinect fusion algorithm to merge the multiple Kinect data to create a single 360° skeleton.

### Webmaster, IEEE Ryerson Electronics Chapter

📅 May 2018 - Present

- Used **HTML**, **CSS**, **JavaScript** and to update and improve the IEEE Ryerson's Electronics Chapter's website (<https://www.ee.ryerson.ca/~rec/>).
- Acquired front-end web developer skills by maintaining the user interface and the style of the website.

## 🔧 Engineering Projects

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### IEEE E-Bot Workshop

- Develop software for an autonomous E-Bot using **Arduino**, working with DC Motor using the motor shield and the accelerometer.

### IEEE IoT Smart City Hackathon (3<sup>rd</sup> Place)

- Built automatic street lights with crash detection ability using ultrasonic, sound sensors and **HUZZAH** ESP8266.

### Human Handwriting Imitator

- Created software with C# which once synchronized imitates the user's handwriting.

## 🏆 Achievements

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- Received Undergraduate Student Research Award (USRA) sponsored by the Natural Sciences and Engineering Research Council of Canada (NSERC).
- Received a letter of congratulatory from the Prime Minister, Minister of Innovation, Science and Economic Development, and from the President of the Canadian Space Agency for placing 2<sup>nd</sup> worldwide in the NASA Space Ames Contest.
- Presented at the International Space Development Conference and Innovation Nation Conference and was featured on CBC radio, Metro Toronto, other media outlets.

## 🎓 Education

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### Computer Engineering, Ryerson University

📅 Sept 2017 – Present