Rinay Shah

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Skills Summary

- 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, VDHL, MATLAB
Tools: Visual Studio, Visual Studio Team Services, Distributed Revision Control System(Git)
Framework/Libraries: p5.js, Bootstrap, jQuery, .NET

Experience

Research Intern, Ryerson University — May 2018 – Present

- Configurated 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.
- Worked with graduate students to implement Kinect fusion algorithm to merge the multiple Kinect data to create a single 360° skeleton.

Webmaster, IEEE Ryerson Student Chapter & 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/). Used **WordPress**, **UI** and **UX** to maintain the official website of IEEE Ryerson Student Chapter (http://ieeeryerson.com/).
- Acquired front-end web developer skills by maintaining the user interface and the style of the website.

Engineering Projects

IEEE E-Bot Workshop

- Built a dual wheel autonomous e-bot that is controlled using **Arduino**, **accelerometer**, and various sensors. Used tools such as **package.json**, **IBM Watson** and **Node Red** platforms to communicate and monitor data.

IEEE IoT Smart City Hackathon (3rd Place)

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

Human Handwriting Imitator

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

Achievements

- 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 2nd 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

Computer Engineering, Ryerson University — Sept 2017 – Present