Rinay Shah

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Skills and Summary

- Software enthusiast, 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#, Java, C/C++, Python, JavaScript, PHP, VDHL, MATLAB
Tools: Visual Studio, Visual Studio Team Services, Distributed Revision Control System(Git)
Framework/Libraries: p5.js, Bootstrap, jQuery, .NET

Experience

Computer Hardware Engineer, Crypto TRX Products Inc — Sept 2018 - Present

- Work with the hardware and firmware of the product by using computer-aided design software like **VDHL**, operating system software, and circuit testing. Use **C++**, **Java** and **PHP** to maintain the interface of the product.

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 a graduate student to implement a Kinect fusion algorithm to merge the multiple Kinect joint data on the server computer to create a single 360° Kinect 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

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** and platforms like **IBM Watson** 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,** and various other sensors.

Human Handwriting Imitator

- Created software in **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. Also featured on CBC radio, Metro Toronto, other media outlets for this achievement.

Education

Computer Engineering, Ryerson University — Sept 2017 – Present

Key Courses: Electric Circuit Analysis, Software Systems, Digital Systems, Electric Networks