

Rinay Shah

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⚙ Skills and Summary

- o Software enthusiast with experience in object-oriented programming, and developing for software and operations teams in agile and start-up environments
- o Self-learner with strong analytical, critical thinking, debugging skills and an ambition of achieving success.
- o Capable of leading a team with multiple tasks at hand, ranging from software to hardware.

Programming Languages: C#, Java, C/C++, Python, JavaScript, PHP, VHDL, MATLAB

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

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

📖 Experience

Computer Hardware Engineer, *Crypto TRX Products Inc*

📅 Sept 2018 - Present

- o 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

- o Configured a Multiple-Kinect V2 tracking environment in **C#** by acquiring the joint skeleton data from four Kinects using Microsoft Kinect SDK 2.0.
- o Used **TCP/IP** protocols and **client-server** network to send the joint data from multiple clients to a single server.
- o 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

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

🔧 Engineering Projects

IEEE E-Bot Workshop

- o 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)

- o Built an automatic street lights system with crash detection ability using **HUZZAH ESP8266** and various other sensors.

Human Handwriting Imitator

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

🏆 Achievements

- o Received Undergraduate Student Research Award (USRA) sponsored by the Natural Sciences and Engineering Research Council of Canada (NSERC).
- o Received a letter of congratulatory from the Prime Minister, Minister of Innovation and from the President of the Canadian Space Agency for placing 2nd worldwide in the NASA Space Ames Contest.

🎓 Education

Computer Engineering, Ryerson University

📅 Sept 2017 – Present