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   Strong self-learner with strong analytical, critical thinking, debugging skills and avidity for expansion of current skillset.

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

Embedded Software Developer, *Crypto TRX Products Inc*   📅 Sept 2018 - Present

o   Work with the hardware and firmware of the product by using computer-aided design software like **VHDL**, operating system software, and circuit testing.

o   Use **C++**, **Java**, **PHP** to maintain the interface of the product. Work with technologies such as **IBM Enterprise Blockchain Solutions**, digital and electronic systems to develop 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 Certificate 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 **IBM's Cloud Servers**, **HUZZAH ESP8266**, **ultrasonic** and **sound sensors**.

Human Handwriting Imitator

o   Created software in **C#** which once synchronized imitates the user's handwriting so that very time a key is pressed on the keyboard that letter, number, or symbol appears in 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

o   **Key Courses:** Software Systems, Electric Networks, Digital System, Electric Circuit Analysis   **CGPA: 3.47/4.33**