Tamim Rahman

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Education

Ryerson University   Sep 2019 - Jun 2023

Bachelor of Engineering, Computer Engineering with Software Specialization

GPA: 3.8 / 4.0

Summary of Qualifications

Proficient: Python, Java, C, Django, JavaScript, Sails.js Rust, and SQLite.

Competent: HTML/CSS, C++, Git, object oriented programming, and Linux.

Skills: Problem solving, communication (oral / written), and collaboration.

Experience

Software Engineering Intern Toronto, ON   Sep 2020 - Present

Cybersecurity Research Lab (CRL)

- Developing a prototype web application using Sails.js to show investors the potential of the CRL blockchain network in fraud prevention in the real estate industry.

Research Assistant – Cryptography Toronto, ON   May 2020 - Aug 2020

Ryerson University - Department of Computer Science

- Created an implementation of SIKE (post-quantum cryptography) for 8-bit AVR microcontrollers using Rust and the relevant concepts of abstract algebra.
- Developed a Rust local bignum library and the supporting arithmetic functions.
- Researched Microsoft's 64-bit implementation with guidance from a SIKE contributor.

Volunteer Experience

Lead Developer (Executive) Toronto, ON   Sep 2020 - Present

Ryerson Electrical/Computer Engineering Student Society

- Developed a custom discord bot using discord.py using to authenticate and automate user roles/permissions within the union's official server for online events/enrichment.

Controls Developer Toronto, ON   Sep 2019 - Aug 2020

Ryerson Rams Robotics (R3)

- Developed a python heat map to visualize radiation data for the Mars rover, resulting in a significant decrease in decision making time for operators.
- Created a python app to simulate incoming radiation data for the Mars rover competition leading to more robust testing and an expected decrease in AI development time.

Projects

Computer Vision aided Contactless Delivery, *https://github.com/t32rahman/CVDelivery*

A python project that implements OpenCV and VisionAPI to detect when a delivery has been made to a household and sends an email to the user with a picture showing the delivery.

Android – Pokédex, *https://github.com/t32rahman/pokedex*

Applied aspects of OOP in Java to create an android app that allows users to search up any pokémon and get the corresponding type, id, description etc.

More projects: *https://github.com/t32rahman*

Certifications

Cisco Certified Network Associate (CCNA)   Aug 2019 - Feb 2023

Certifies the ability to build and deploy networks that are reliable, secure, and scalable.

Earned by displaying in-depth knowledge of networking protocols and best practises.