Tamim Rahman

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Education

Ryerson University,   Sep 2019 - May 2023

Bachelor of Engineering, Computer Engineering with Software Specialization.
GPA: 3.93

Summary of Qualifications

- Proficient and experienced in Python, Java, Rust, C, and SQLite.
- Familiar with Git version control, object oriented programming, algorithm design, data structures, complexity analysis, Linux, and bash.
- Scope of Experience: Cryptography, computer vision, and data visualization.
- **Strengths:** Fast-paced learning, collaboration, and communication (oral / written).

Work Related Experience

Research Assistant (Cryptography) - Ryerson University   May 2020 - Present

- Collaborated with a team of developers to create an implementation of **SIKEp434** for 8-bit AVR microcontrollers using Rust and the relevant concepts of **abstract algebra**.
- Implemented the local bignum library and the supporting arithmetic functions.

Controls Developer - Ryerson Rams Robotics (R3)   Sep 2019 - Present

- 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

Personal Portfolio Website, *www.tamimrahman.dev*
Developed a personal website using **HTML/CSS/JS** to showcase my side projects and experience. Deployed remote hosting with custom domain name and **https**.

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.

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.

Certifications

Cisco Certified Network Associate (CCNA)   Aug 2019 - Feb 2023
Certifies the ability to create and deploy networks that are reliable, secure, and scalable.
Solid understanding of network security protocols and implementation.