

Fardeen Khalid Mazumdar

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Profile

Highly motivated Computer Science graduate with a focus on **software development** and **security**, combining theory with practical experience through Co-ops. Actively seeking new opportunities.

Technical Skills

- **Programming Languages:** RISC-V, Unix, C/C++, Java, JavaScript, HTML5, CSS, Verilog, SQL, Python, PHP
- **Tools/Frameworks :** MongoDB, Express, React, NodeJS, MS Office Suite, Unity Game Engine, Eclipse, Android Studio, Pycharm, Sony Vegas Pro, Bootstrap, Selenium, Kali Linux, Unreal Engine

Past Work Experiences

Software Developer | Ministry of Children, Youth & Social Services **October 2021 – April 2022**

- Streamlined the **Child Protection Information Network (CPIN)** using **IBM Curam** and **Oracle SQL**, boosting user experience and operational efficiency.
- Devised effective **JUnit** test cases, enhancing back-end maintenance and efficiency of CPIN with the use of **Java**, while researching innovative front-end approaches with **Selenium**.
- Spearheaded the design and implementation of new CPIN features, improving the web application's overall **quality of life**.

Smart Systems Intern | Mackenzie Health **January 2021-April 2021**

- Collaborated on cutting-edge technical initiatives at Cortellucci Vaughan Hospital, contributing to the opening and recognition of it as Canada's **first smart hospital**.
- Played a key role in the successful deployment of robust systems such as **RTLS, Vocera, and MyCare**, enhancing hospital operations and patient care.
- Conducted comprehensive **MRT Testing** to ensure system reliability and performance, bolstering the hospital's technological infrastructure.

Video Surveillance Security Technician | York University – Security Services **October 2018 – Present**

- Monitored extensive camera network across **Keele and Glendon campuses**, ensuring **optimal safety and security** at York University.

Projects

Movie Review Web Application | Java, Spring Boot, MongoDB, ReactJS, REST API

- Engineered using **Java** and **RESTful API** methods with **Spring Boot** for back-end functionality, paired with a user-friendly front-end interface developed with **React**, ensuring efficient data storage and handling with **MongoDB**.

Ransomware Implementation | Python

- Developed a Python-based ransomware with diverse encryption/decryption capabilities including **XOR, AES, RC4, RSA, ECC**.

Education

York University | Bachelor of Science (Honours), Computer Science **May 2023**

- **Coursework:** Applied Cryptography, Data Structures, Object Oriented Programming, Database Systems, Design and Analysis of Algorithms, Computer Security Laboratory, Data Mining