Tanzir Hossain

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WORK EXPERIENCE

Real Programming 4 Kids   **Nov 2019 – Mar 2020**

Programming Instructor

Oshawa, ON

- Fixed various bugs on students applications, helped review coding manuals used for teaching, and prepared individualized curriculums for each student
- Allowed students to explore and understand different programming languages and their various features like different syntax, coding paradigms and bugs

PROJECTS

Only Happy Mistakes   **2019**

PHP, HTML, JavaScript, CSS

- Led a group of 4 in a project to generate a web application that will allow users to upload and showcase visual arts
- Designed a **MySQL** database to save user data and allow login/logout system for users through **PHP**
- Developed an image uploading system for users to upload their art to advertise themselves to prestigious employers

Software Defined Network   **2022**

Python

- Programmed a system that can both detect and defend against network attacks on a software defined network through the use of multiple computer networking concepts implemented in **Python** and machine learning algorithms
- Tested the system through emulating an SDN in Python and hosting an emulated network attack with various tools and libraries like Mininet, Ryu, and hping3

Library Management System   **2021**

PHP, HTML, JS, CSS, Laravel

- Led a group of 4 in a project to update a outdated codebase and completely redesign the backend services for easier readability, better structuring and more room in the future to add more features
- Programmed a CRUD style backend with a **MVC** pattern to revamp systems services and clean up code structure using **Laravel** as a backend service for the server and **MySQL** as a database service
- Ensured quality throughout the system with testing methods like black box testing and unit testing with the use of certain libraries like **Selenium** and **PHPUnit**

SKILLS

Languages-Java, Python, JavaScript, PHP, Golang, HTML, SQL
Frameworks/Libraries-Laravel, React, NodeJS
Database: MySQL, MongoDB, Firebase, SQLite
Other-Git/Github, Google Cloud Platform, Kafka, Docker

EDUCATION

Ontario Tech University   **2023**

BEng, Software Engineering

- **Relevant Coursework:** Operating systems, Distributed Systems, Cloud Computing, Computer Security, Web Development, Data Management, Intro to Artificial Intelligence, User Interfaces