SAAD MAKROD

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Summary of Qualifications

- Hands on experience in doing development work using Java, Python, C, PHP, and JavaScript for two years
- Development experience with React and Django frameworks to develop web applications
- Experience using MongoDB, Firebase Realtime Database, MySQL, Sqlite, PostgreSQL, and Microsoft SQL
- Excellent knowledge of software development shown by development of RBC SSL Certificate Management System
- Good problem solving, and analytical skills developed through Product Marketing Intern Position at Microsoft
- Great understanding of agile development through the development of Medical Clinic App, viewable on GitHub
- Strong passion for learning new skills independently as showcased through development of side projects

Education

Candidate, Honors Bachelor of Science • University of Toronto • 2020 – Present

- Computer Science, CGPA: 3.73/4.0, UofT Scholars Award recipient

Work Experience

Cyber Security Analyst • Royal Bank of Canada • Jan 2022 – April 2022

- Developing the RBC Certificate Management System using Django and Python to create a central location for RBC internal users to be able to create certificates and query for certificates
- Developing and testing APIs on ICSF and IBM Mainframe using REXX and C to increase the integrity and security of RBC's Key Management System
- Coordinating mentors of CanHack 2022 and aiding in planning Cyber Security Onboarding for new hires

Teaching Assistant • University of Toronto • Sept 2021 – Dec 2021

- Assistant for the courses Introduction to Programming using Python and Introduction to Canadian Business
- Hosted weekly tutorials, review office hours, and developed media to solidify student understanding of the material

Product Marketing Manager Intern • Microsoft • July 2019 – Aug 2019

- Created an inventory app that smoothened the query process of inventory for over 2000 employees, later presented at the Microsoft Canada Annual General Meeting
- Developed a Power BI dashboard to showcase the difference between income and housing prices across the country, receiving praise from peers on uniqueness of idea

Projects

RBC SSL Certificate Management System • Python, Django, SQLite, MSSQL • April 2022

- Developed the RBC SSL Certificate Management System which is a multi-database CRUD application
- Implemented user authentication with LDAP to restrict access to only users with the correct active directory group promoting security of the application
- Designed the frontend using Bootstrap, DataTables, and Django Messages optimize user experience
- Developed feature that parsed uploaded certificate files and updated the database resulting in easy system to fulfill certificates and send email notification on completion

MERN Blog App • React, Node.js, MongoDB, Express • Feb 2022

- Developed a MERN app which allows users create, delete and like blogs as well as post and delete comments
- Implemented authentication so that users are able to create, delete and comment on blogs once logged in
- Designed frontend using Redux, React Router, React Forms, Bootstrap and Toastify to enhance user experience

Medical Clinic App • Java, Android Studio, Firebase Realtime Database • Aug 2021

- Implemented Model-View-Controller design for login modules to promote ease of testing and conformance with SOLID design principles
- Implemented activities that filtered doctors based on user specified filters and allowed users to book appointments increasing functionality of the app and user experience