Saad Makrod

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EDUCATION

University of Toronto — Toronto, Ontario
Honours Bachelor of Science - Computer Science; GPA: 3.75/4.0; Dean's List — *Sept 2020 - Present*
Courses: *Software Tools and Systems Programming (In Progress), Design and Analysis of Data Structures (In Progress), Software Design, Introduction to Numerical Algorithms for Computational Mathematics*

SKILLS SUMMARY

- **Languages:** Python, JavaScript, C, Java, PHP, Ruby, HTML, CSS, SQL
- **Frameworks:** MERN, PERN, Django+React, Django Full Stack, MAMP, Bootstrap, Material UI
- **Tools:** Git, PostgreSQL, MySQL, SQLite, MongoDB, Neo4j, Heroku, VS Code, Postman, Figma
- **Soft Skills:** Time Management, Organization, Communication, Independent Learning, Teamwork

EXPERIENCE

University of Toronto T-CAIREM
Web Developer — *May 2022 - Present*
- Developing standalone education platform across all phases of SDLC using Django, React, Redux, Material UI and PostgreSQL intended to be widely used by T-CAIREM members across Canada
- Communicating with both technical and non-technical stakeholders to iterate project architecture, goals, and progress
- Developed admin dashboard to implement content management system and provide user administration and analytic services resulting in maintainable application that can provide metrics for future growth
- Implemented Google OAuth2 with the client-side workflow resulting in secure passwordless authentication of users

Royal Bank of Canada
Cyber Security Analyst — *Jan 2022 - Apr 2022*
- Developed RBC Certificate Management CRUD application using Django and Microsoft SQL for RBC internal users
- Developed custom LDAP authentication system to restrict access to users with correct active directory groups
- Created custom search API that allows users to build advanced searches on properties such as date ranges, certificate statuses, encryption algorithms, and key words resulting is an easy-to-use and efficient way to find information
- Aided in developing an API in Rexx on IBM Mainframe that uses hashing algorithms and partially automates the process of uploading cryptographic keys into database, improving efficiency in the Cryptographic Services team

University of Toronto
Computer Science Teaching Assistant — *Sep 2021 - Dec 2021*
- Responsible for creating media for over 500 students to aid in setup of coding environment, hosting tutorials and marking
- Aided in teaching programming fundamentals to students such as Python syntax, code testing, refactoring and SQL

Microsoft
Product Marketing Intern — *July 2019 - Aug 2019*
- Created an inventory app that smoothened the query process of inventory for over 2000 employees using Microsoft Power Platform, later presented at the Microsoft Canada Annual General Meeting
- Developed Power BI dashboard to showcase the disparity between income and housing prices across the country

PROJECTS

Blog App — Side Project
MongoDB, Express.js, React.js, Node.js — *Feb 2022*
- Developed Blog Application which implements the HTTP rest endpoints to allow users to manage blogs and comments
- Designed frontend using React Router, React Bootstrap and Toastify to create an appealing interface for the user
- Implemented a Redux design to the application frontend resulting an application that is easy to maintain and scalable

Medical Clinic App — School Project
Java, Android Studio, Firebase Realtime Database — *Aug 2021*
- Developed a Medical Clinic Mobile App with Agile methodologies that simulates a medical clinic by having users sign up and book appointments with doctors and updating information real time
- Implemented a Model-View-Controller design for the login modules to promote ease of testing and conformance with the SOLID design principles
- Implemented feature that filtered doctors based on specialties and allowed users to book appointments real time