

Mohammed Amir

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EDUCATION

University of Toronto, BAsC, Computer Engineering

Toronto, ON

Minor: Artificial Intelligence

Graduation: June 2024

Related Coursework: Software Communication and Design, Algorithms and Data Structures, Computer Fundamentals, Programming Fundamentals, Software Engineering, Computer Networks, Operating Systems, Computer Organization

WORK EXPERIENCE

Data and Administrative Assistant

Toronto, ON

University of Toronto Engineering Career Centre

Sept 2023 - Apr 2024

- Assisted in data visualization and creating reports using excel and Power BI
- Cleaned and updated databases to enable better accuracy and organization for data analysis. Inform database users on how to maintain the integrity of data in the future
- Automated report and record creation processes using Power Automate and scripts, reducing manual time-intensive tasks to computerized processes

Junior Software Developer

Vaughan, ON

Human Endeavour

May 2023 - Aug 2023

- Initiated, planned, and administered the design and marketing of a line assistive tablets to aid visually impaired users as well as those living with dementia in Activities of Daily Living
- Formulated database to track tablet usage, performance, and inventory to allow for data-driven insights in how to improve and manage products and features
- Devised infrastructure to quickly replicate and update features and programs on deployed tablets, as well as a system of version control to track software updates
- Built a scanner app using Android macros, Google API calls, Google Sheets macros, and Google Apps Scripts to automate the scanning, tracking, and management of inventory

PROJECTS

Frontend Developer

Toronto, ON

UofT Occasional Web Application (<https://occasional.onrender.com/>)

Sept 2023 - Dec 2023

- Managed frontend design of a university-wide events hub web app with 5 developers using the Agile methodology
- Prototyped and reviewed frontend designs using Figma and assessed against explicit user requirements
- Developed dynamic calendar and dashboard pages to display user and organization events using Flask, HTML, CSS, and JavaScript connected to a MongoDB non-relational backend database

Communications Manager and Developer

Toronto, ON

Google Maps Clone

Jan 2021 - Apr 2021

- Designed and programmed a GIS in C++ using location data and calls to an OpenStreetMapsDatabase API
- Developed both frontend and backend aspects of the application, including optimal route-finding algorithm between two locations and a user-oriented responsive interface

SUMMARY OF SKILLS

Technical Skills:

- Mathematical analysis and problem solving, and familiarity with UNIX, Linux, Windows, and MacOS

Programming Languages:

- C, C++, Python (Flask, Mat, Verilog, ARMv7 Assembly, JavaScript (ES6, React, Three.js), SQL (PostgreSQL)

Software Development:

- Version Control (Git/GitHub), Object-Oriented Programming, Deep Learning Neural Network Design, Unit Testing, Socket and Network programming, Agile and Waterfall Methodologies

