

# 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 of 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, matplotlib, 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