



Mohammed Amir

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EDUCATION

University of Toronto, BAsC Computer Engineering

Toronto, ON

Major: Computer Engineering, Minor: Artificial Intelligence, cGPA: 3.2

Graduation: June 2024

SUMMARY OF SKILLS

Professional:

- Project Management, Algorithms and Data Structures, IP/TCP, Agile and Scrum Methodology, CI/CD, RESTful APIs, Test-Driven Design, Database Management and Design, Computer Security, Software Engineering

Programming Languages:

- C, C++, C#, Python (Flask, matplotlib, Pytorch, Numpy), PHP, ARM Assembly, JavaScript (ES6, Typescript, React, Three.js, Node.js, AJAX, jQuery), SQL (MySQL, PostgreSQL), MongoDB, HTML5, CSS3, Bootstrap

Software:

- Git, GitHub, Jira, Visual Studio Code, Postman, Docker, Linux (Debian, Ubuntu), MacOS, Windows, AWS

WORK EXPERIENCE

Junior Software Developer

Vaughan, ON

Human Endeavour

May 2022 - Aug 2023

- Led the design and development** of assistive tablets using *Kotlin*, *Python*, and *Google Cloud APIs*, enhancing the quality of life for 400+ seniors with Alzheimer's and securing a \$500,000 government contract.
- Built and optimized AI-powered** indoor tracking systems using *Python*, *C++*, and *Arduino PCBs*, enabling real-time monitoring of health, activities, and location data.
- Developed RESTful APIs** with *Flask* to store and retrieve location data from embedded *IoT sensors*, ensuring seamless *backend integration* for real-time tracking.
- Engineered an Android-based scanner app** utilizing *Google APIs*, *Google Sheets macros*, and *Macroandroid automation tools* to streamline inventory tracking and management.
- Created and managed databases** for tracking tablet usage, performance, and inventory, providing actionable insights and driving *data-driven decisions* for feature enhancements.

PROJECTS

Frontend Developer and Project Manager

Toronto, ON

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

Sept 2023 - Dec 2023

- Engineered** dynamic calendar and dashboard pages with *Python Flask*, *React*, and *Typescript*, integrated with a *MongoDB* backend to support seamless event management.
- Collaborated in Agile teams**, outlining *user requirements* and leveraging *Git* to drive efficient *development*, *integration testing*, and *deployment* processes.
- Led and mentored** a team of 3 frontend developers, driving the successful delivery of 8 site-wide features, ensuring high-quality code.

Open-Source Contributor

Toronto, ON

Ethos (<https://github.com/Aditya-Gupta/Ethos>)

Dec 2023 - Feb 2024

- Enhanced the Ethos open-source project** by implementing comment tracking using *React*, *JavaScript*, and *Bootstrap*.
- Developed features** to store, track, and navigate to timestamps linked to comments, improving user interaction and experience.

Communications Manager and Developer

Toronto, ON

Atlas Meets Computer

Jan 2021 - May 2021

- Designed and developed** a GIS application in *C++*, utilizing location data and the *OpenStreetMapsDatabase API*.
- Implemented backend systems** for data loading and route-finding algorithms (*Dijkstra*, *A**) with the *C++ standard library*.
- Built a user-centric responsive interface**, featuring intuitive search and route-finding controls to enhance user experience.
- Coordinated communication** between management and team, defining requirements and deliverables.

PROJECTS

Open-Source Contributor
Ethos

Toronto, ON
Dec 2023 - Feb 2024

- Contributed to the Ethos open-source project by adding comment tracking functionality with React, Javascript, Bootstrap, HTML and CSS
- Implemented the ability to store, track, and jump to the timestamp associated with a specific comment

Work-Study Data and Administrative Assistant
University of Toronto Engineering Career Centre

Toronto, ON
Sept 2023 - Mar 2024

- Standardized systems of data visualizations and created reports using Microsoft Excel
- Cleaned and updated databases to enable better accuracy and organization for data analysis
- Automated report and record creation processes using Power Automate
- Developed scripts for report generation and database maintenance, reducing manual time-intensive tasks to computerized processes