



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 *Macrodroid 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 fronted 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.