

Mohammed Amir

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EDUCATION

University of Toronto, BAsC

Toronto, ON

Major: Computer Engineering, Minor: Artificial Intelligence

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), Verilog, SQL (MySQL, PostgreSQL), MongoDB, HTML5, CSS (Bootstrap)

Software:

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

WORK EXPERIENCE

Junior Software Developer

Vaughan, ON

Human Endeavour

May 2022 - Aug 2023

- Initiated, planned, and administered the design of assistive tablets using Kotlin, Python, and Google Cloud APIs to aid 400+ seniors living with Alzheimer's bringing in a government contract valued at \$500 thousand.
- Implemented and rigorously tested Random Forest AI indoor positioning system using embedded systems, C++, and Python scripts to monitor the activities of Alzheimer's patients that achieved 95% accuracy
- Developed Google Cloud-based API's to quickly replicate, and rigorously test features on deployed tablets
- Integrated procedures and policies to track software updates and resolve a variety of bugs
- Interfaced with senior clients and stakeholders to produce specifications and requirements

PROJECTS

Frontend Developer and Project Manager

Toronto, ON

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

Sept 2023 - Dec 2023

- Programmed and designed dynamic calendar and dashboard pages to display user and organization events using Python Flask, Bootstrap, React, HTML, CSS, and Typescript connected to a MongoDB database
- Collaborated in a team using the Agile methodology and Git to devise user requirements, a well-documented codebase, integration test plans and deployment plans
- Managed a team of 3 frontend developers, training, testing, and coordinating 8 unique site-wide features

Open-Source Contributor

Toronto, ON

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

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

Communications Manager and Developer

Toronto, ON

Atlas Meets Computer

Jan 2021 - May 2021

- Designed and programmed a GIS in C++ using location data and calls to an OpenStreetMapsDatabase API
- Developed backend location data loader, and route-finding algorithm (Dijkstra, A*) using C++ standard library
- Implemented user-oriented responsive interface, search, and route-finding interaction controls
- Managed communications between engineering manager, supervisors, and team, specifying requirements, metrics and deliverables