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), Verilog, SQL (MySQL, PostgreSQL), MongoDB, HTML5, CSS (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**, outline ***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/Adittya-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.