IMRAN YAFITH

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Dedicated third-year Computer Science student with a strong foundation in data structures and algorithms and a keen interest in problem-solving and optimizing code efficiency. Experience building, testing and deploying user-focused applications using modern technologies.

Education

Honours Bachelor of Computer Science Sep. 2021 — Apr. 2026
Sheridan College | GPA: 3.82

Relevant Coursework Data Structures & Algorithms, C/C++ Program Design, Enterprise Software Systems, Distributed & Parallel Computing, Cloud Infrastructure

Extra-curricular *Hackville '23 Winner*, *Hackville '24 Participant*, Executive of the Sheridan Computer Science Club, Python Tutor

Professional Experience

Naryant (Formerly Inovex) — Research Assistant Oct. 2023 — Present

- Utilized *Simulation of Urban Mobility (SUMO)* and *OpenStreetMap (OSM)* to model and analyze traffic patterns, enhancing data accuracy for urban development projects.
- Synthesized a comprehensive dataset predicting traffic demand for the city of *Oakville*, utilizing simulation tools (SUMO, OSM) and machine learning techniques to forecast peak traffic patterns accurately.
- Collaborated with cross-functional teams to integrate simulation data with geospatial mapping applications, supporting strategic planning and decision-making.
- Conducted in-depth analysis of traffic flow data to develop sustainable urban traffic solutions.
- Delivered insightful reports to stakeholders, shaping urban traffic policies.

Karmy Pain Clinic — Research Assistant Dec. 2022 — Aug. 2023

- Engineered an AI-driven pain diagnostic system leveraging *Python* and *MATLAB*, improving patient diagnosis accuracy and treatment efficacy.
- Increased data processing efficiency by **30%** with improved analytics and machine learning.
- Played a pivotal role in a multidisciplinary team, contributing to the iterative development and optimization of the AI model based on patient feedback.

Skills

Programming Languages Python, JavaScript, TypeScript, C#, C++, C, LaTeX
Frameworks & Tools React, NextJS, Node.js, Express, ASP.NET Core, NumPy, Pandas
Datastores MongoDB, Firebase (Firestore), SQL Server, SQLite
DevOps AWS (EC2), Git, GitHub, Docker