IMRAN YAFITH

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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 Programming Tutor

PROFESSIONAL EXPERIENCE

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

- Utilized *Simulation of Urban Mobility (SUMO)* and *OpenStreetMap (OSM)* to model and analyze traffic patterns across **10+** urban zones, enhancing data accuracy for urban development projects.
- Synthesized a comprehensive dataset predicting traffic demand for the city of *Oakville*, utilizing simulation tools (SUMO, OSM), achieving **75%** accuracy.
- Collaborated with a team of **4 researchers** to assimilate simulation data, bolstering collective strategic planning and decision-making.
- 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, reducing diagnosis time by **15%**.
- Increased data processing accuracy by **30%** with improved data analysis techniques.
- Played a pivotal role in a multidisciplinary team of **5 specialists**, contributing to the iterative development and optimization of the AI model, resulting in a **25%** increase in model accuracy based on patient feedback and clinical trials.

SKILLS

Programming Languages	Python, JavaScript, TypeScript, C#, C++, C
Frameworks & Tools	React, Next, Node, Express, ASP.NET MVC/Core, Flask, FastAPI
Datastores	MongoDB, Firebase (Firestore), SQL Server, SQLite
DevOps	AWS (EC2), Git, GitHub, Docker

PROJECTS

imranyafith.com ↗   github.com/pixelfox01/imranyafith.com

Next.js, TypeScript, React, TailwindCSS

- Personal portfolio website made to showcase professional skills and projects.

Bookstore App ↗   github.com/pixelfox01/mern-bookstore-demo

MongoDB, Express, React (Vite), Node.js, TypeScript

- Full-stack bookstore application, featuring *complete CRUD operations* and *MongoDB* integration.

Homebase Automation   github.com/pixelfox01/homebase-automation

Python, BeautifulSoup4, Playwright, Google Developer API

- Shift reminder application intergrated with *Google Calendar* for real-time notifications.