

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 (Sheridan CAAI) — 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).
- Collaborated with a team of **4 researchers** to assimilate simulation data, bolstering collective strategic planning and decision-making.

Karmy Pain Clinic (Sheridan CAAI) — 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.
- Increased data processing accuracy by **30%** with improved data analysis techniques.
- Contributed to a **5 person** team's iterative development and optimization of an AI model, achieving significant accuracy gains based on patient feedback and trials.

SKILLS

Programming Languages Frameworks & Tools Datastores DevOps

Python, JavaScript, TypeScript, C#, C++, C
React, NextJS, Node.js, Express, .NET, Xamarin, Flask
MongoDB, Firebase (Firestore), SQL Server, SQLite
AWS, 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.
- Utilized *Next.js* for server-side rendering and *TailwindCSS* for styling.

[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.
- Utilized *React (Vite)* for faster frontend development and *TailwindCSS* for styling.
- Implemented backend API with *Express* and *Node.js*.

[Homebase Automation](#)

github.com/pixelfox01/homebase-automation

Python, BeautifulSoup4, Playwright, Google Developer API

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