

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 in building, testing and deploying user-focused applications using modern technologies and frameworks.

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) — 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), achieving **75%** accuracy.
- Collaborated with cross-functional teams 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.
- 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, ~~W~~TeX

Frameworks & Tools

React, Next.js, Node.js, Express, ASP.NET MVC/Core, NumPy, Pandas

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.