

# 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 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, NextJS, 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](http://imranyafith.com)

[github.com/pixelfox01/imranyafith.com](https://github.com/pixelfox01/imranyafith.com)

NextJS, TypeScript, React, TailwindCSS

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

### [Bookstore App](#)

[github.com/pixelfox01/mern-bookstore-demo](https://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](https://github.com/pixelfox01/homebase-automation)

Python, BeautifulSoup4, Playwright, Google Developer API

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