

Imran Yafith

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EDUCATION

Sheridan College

Oakville, ON

Honors Bachelor of Computer Science

Sep. 2021 – Apr. 2026

- **Relevant Coursework:** Data Structures & Algorithms, C/C++ Program Design, Enterprise Software Systems, Distributed & Parallel Computing, Cloud Infrastructure
- **Extra-Curricular / Hackathons:** [Hackville '23 Winner](#), [Hackville '24 Participant](#), Executive of the Sheridan Computer Science Club, Python Programming Tutor

EXPERIENCE

Machine Learning / Computer Vision Developer

May 2024 – Present

Oakville Centre for Vision - Sheridan Centre for Applied AI

Oakville, ON

- Collaborated on the “*Difference Goggles*” project, focusing on developing low-cost eye tracking wearables for sports and rehabilitation applications.
- Engineered machine learning algorithms and conducted image/video processing using Python to improve eye tracking accuracy.
- Actively participated in Agile project management practices, enhancing team collaboration and project deliverables while adhering to the *Software Development Life Cycle (SDLC)*.

Research Assistant

Oct. 2023 – Apr. 2024

Naryant - Sheridan Centre for Applied AI

Oakville, ON

- 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 using Agile methodologies to assimilate simulation data, bolstering collective strategic planning and decision-making.

Research Assistant

Dec. 2022 – Aug. 2023

Karmy Pain Clinic

Oakville, ON

- 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

PROJECTS

imranyafith.com | *NextJS, TypeScript, React, TailwindCSS*

[GitHub Repo](#)

- Personal portfolio website made to showcase professional skills and projects.
- Implemented responsive design principles and accessibility features to enhance user experience and inclusivity, reflecting best practices in software development.

MERN Bookstore | *MongoDB, Express, React (Vite), Node.js, TypeScript*

[GitHub Repo](#)

- Full-stack bookstore application, featuring complete CRUD operations and MongoDB integration.
- Designed and implemented a user-friendly interface with robust error handling and security features, demonstrating a commitment to high-quality software solutions.

Homebase Automation | *Python, BeautifulSoup4, Playwright, Google Developer API*

[GitHub Repo](#)

- Shift reminder application integrated with Google Calendar for real-time notifications.
- Integrated advanced data parsing techniques to enhance the automation of notifications, showcasing problem-solving skills and technical proficiency.

TECHNICAL SKILLS

Languages: Python, Go (Golang), C++, C, JavaScript, TypeScript, C#, Java

Frameworks: Pandas, Numpy, Matplotlib, React, Next, Node, Express, ASP.NET MVC/Core, Flask, FastAPI

Datastores: PostgreSQL, MySQL, MongoDB, Firebase (Firestore), SQL Server, SQLite

DevOps: AWS, Git, GitHub, Docker, Bash