

HAIDER MALIK

Toronto, Canada

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[Portfolio](#)

[LinkedIn](#)

[GitHub](#)

Profile Summary

- **2nd-year Software Engineering student at York University with a strong foundation in programming.**
- Proficient in **Python, Java, and JavaScript**, with experience in frameworks like **React, Spring Boot, Flask and .NET**.
- **Skilled in machine learning with TensorFlow, PyTorch, and Scikit Learn**, developing innovative **AI-powered tools**.
- **Strong communication and collaboration skills** honed through technical and non-technical roles.

Education

York University

Expected Graduation Date: **April 2027**

BEng in Software Engineering (Specialization in Big Data)

Toronto, Canada

Relevant Coursework

- | | | |
|--------------------------|--------------------------------|---------------------------|
| • Intro and Advanced OOP | • Data Structures | • Computer Organization |
| • Embedded Systems | • Software Development Project | • Mechatronics Programing |

Technical Skills

Programming Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, C, C++, C#, Kotlin, Swift, SQL, R

Dev Tools/ Frameworks: Git, Django, Flask, React Native, ReactJS, Next.js, Node.js, Spring Boot, .NET, Kubernetes, Docker, AWS, Google Cloud, REST API, TensorFlow, PyTorch, Scikit Learn, Pandas, NumPy, Matplotlib, Streamlit

Databases: SQL, PostgreSQL, SQLAlchemy, MongoDB, Google Firebase, Chroma DB, Oracle

Projects

[Neural Network Circuit Optimizer](#) | *Python, TensorFlow, PyTorch, Scikit Learn, Pandas, Matplotlib, Pytest, SQLAlchemy*

- Developed an **AI-based tool** to optimize digital circuits using **machine learning algorithms, neural networks**, and circuit simulation, improving efficiency and performance by **up to 35%**.
- Implemented a **neural network** for optimizing circuit efficiency by reducing component count, power consumption, and execution time, achieving a **30% reduction** in circuit execution time.
- Visualized optimization results using **Matplotlib**, and integrated **SQLAlchemy** to store, query, and track circuit data, enabling easy **analysis and performance evaluation**. Used **Pandas** for **data manipulation and analysis**, and **Pytest** for **unit testing** to ensure the reliability of the optimization process.

[Mood Atlas: AI Place Finder](#) | *JavaScript, CSS, Python, Java, React, Next.js, Flask, Spring Boot, SQL, Google Cloud, OpenAI*

- Developed a **React and Next.js frontend** with **Google Maps API** to display personalized mood-based destination recommendations, allowing users to add location preferences for a more personalized experience.
- Integrated a **Python AI backend** using **Flask, OpenAI's LLM** for generating suggestions and **Google Places API** for location data, enhancing recommendation accuracy by **40%** based on user mood analysis.
- Implemented a **Java Spring Boot backend** along with **SQL** for **user management** and storing user favourites. Utilized **Postman** for **API-driven data transfer** to the **SQL database**, reducing API response time by **25%**.

[Supa Charge App For EVs](#) | *JavaScript, TypeScript, C++, Swift, React Native, Google Cloud, Firebase, Clerk Auth*

- Developed *Supa Charge*, a **full-stack app** for finding EV chargers, made using **react native** it has an impressive UI along with **Google Maps integration**, filtering options, and real-time updates on available chargers.
- Integrated **Clerk** for **user authentication**, allowing **account management, insights**, and linking **user data** like favourites to their profiles, reducing login time by **20%**.
- Utilized **Google Maps and Places API** for location search and charger info, with **Firebase** securely storing **user data**, ensuring real-time updates with a **30%** improvement in data synchronization speed.

Non-Technical Experience

Program Assistant | *The Leacock Foundation, Toronto, Canada*

June 2022-Aug 2023

- **Worked full-time and part-time** at 3 different **Childers camps** in my community throughout the year as a **program assistant**. These included **summer camps, Saturday camps and math camps**.
- Developed strong **communication skills** by interacting with children, parents, and staff, while also enhancing my **professionalism** in diverse **educational and recreational environments**.