HAIDER MALIK

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[Portfolio Website](#)   [LinkedIn](#)   [GitHub](#)   [YouTube](#)

Education

York University   Expected graduation date: April 2027

BEng in Software Engineering (Specialization in Big Data)

Relevant courses: Intro and Advanced - Object Oriented Programming, Computer Organization (Assembly related), Computational and Mechatronics Programming

Technical Skills

Programming Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, SQL, Kotlin, Swift, x86Assembly, C/C++
Dev Tools: Git, Docker, Django, React Native/JS, Node.js, Spring Boot, Flutter, XCode, REST API, Google Cloud, TensorFlow
Databases: MySQL, PostgreSQL, MongoDB, Google Firebase

Personal Projects

[Supa Charge App](#) | *JavaScript, TypeScript, C++, React, Google API's and Firebase, Clerk Authentication*

- 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.
- Utilized Google Maps and Places API for location search and charger info, with Firebase securely storing user data for real-time updates.

[AI Chess Bot](#) | *Python, Pygame*

- Developed a chess bot using my own chess engine with multiplayer and AI-powered bot capabilities.
- Implemented powerful greedy algorithms such as Negamax, Recursion, and Alpha-Beta pruning to enhance the bot's decision-making capabilities and leveraged data structures for smooth functionality and user experience
- Designed an aesthetic, user-friendly front-end UI with Pygame, enhancing the overall user experience of the chess game..

[Online Storage Website](#) | *Java, SQL, Spring Boot, JavaScript, TypeScript, ReactJS, Postman, Raspberry PI*

- Developed a full-stack online storage solution with a Spring Boot backend, SQL database, and a ReactJS frontend.
- The system uses Postman for API testing/ data transfer, allowing for seamless integration between the front and back end
- All components are hosted on a Raspberry Pi within my home network, creating a self-contained, private storage solution.

Non-Technical Experience

Children's Camp | *The Leacock foundation, Toronto, Canada*   *June 2022 - Aug 2023*
- Worked part time at 3 different Childers camps in my community thought the year. 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.

CS study group | *York University, Toronto, Canada*   *Sep 2023 - Ongoing*
- Founded an unofficial computer science study club at my school, providing guidance to students seeking programming support. Specialize in assisting first-year students with Python and Java, helping them build a strong foundation and advance their skills ahead of the curriculum.