SHUBH SEHGAL

shubhsehgal03@gmail.com | 647-515-3086 | linkedin.com/in/shubhsehgal/ | github.com/ShubhSehgal | shubhsehgal.github.io/

HIGHLIGHTS OF QUALIFICATIONS

- Third year Electrical Engineering major and Computer Science minor student at McMaster University
- Strong front-end programming experience using JavaScript and JavaScript frameworks (Vue.js), HTML and CSS
- Experience writing programs using Python, Java, and C for personal projects, hackathons, and school courses
- Solid understanding of the Software Development Life Cycle, Data Structures, and Object-Oriented Programming
- Excellent written and verbal communication skills with the ability to work in a team
- Exceptional problem solving and organizational skills with a keen sense of time management

EDUCATION

B.Eng. Electrical Engineering – McMaster University *September 2018 – April 2022 (Expected)*

- Pursuing a minor in computer science
- Relevant Courses
    - COMPENG 2SI4 – Data Structures, Algorithms, and Discrete Mathematics (Java)
    - COMPENG 2SH4 – Principles of Programming (Java and C)
    - ENGINEER 1D04 – Engineering Computation (Python)

TECHNICAL SKILLS

Programming: Python, Java, C, JavaScript, HTML, CSS, MATLAB

Tools and Frameworks: Vue.js, Git, Firebase, Selenium, Visual Studio, Microsoft Office (Word, Excel, PowerPoint)

EXPERIENCE

DeltaHacks Executive – Technical Team *June 2020 – Present*

- Part of the team developing the software needed to run McMaster's hackathon (i.e. website, application portal)
- Utilizing **Vue.js**, **HTML**, and **CSS** to build the front-end components for the hackathon's website
- Experience using Git and GitHub to collaborate with team members (create pull requests/conduct code reviews)
- Effectively managing my time to meet deadlines for deliverables on a tight schedule

Google Developer Students Club – Workshops and Talks Team *September 2020 – Present*

- Organizing technical workshops and events hosted by McMaster University's chapter
- Responsible for planning the curriculum and technical content for the events
- Aiming to network and grow by connecting with other students interested in programming

PROJECTS AND HACKATHONS

Arduino Autonomous Car

- Designed, built, and programmed an autonomous vehicle with the ability to detect and avoid obstacles
- Utilized an Arduino microprocessor to control the device and an ultrasonic sensor to sense oncoming objects
- Programmed the planar autonomous motion and object detection functions in the Arduino language **(C/C++)**

DeltaHacks Participant *January 2019*

- Collaborated in a team of four to create a **Python** application to detect impaired driving due to fatigue
- Utilized the **OpenCV** library to recognize facial features and perform linear calculations to determine tiredness
- Proved myself as a team player by collaborating with other members of the group and offering assistance when needed to ensure all parts of the project would be completed on time