SHUBH SEHGAL

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EDUCATION

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

- Currently in year 3 of a 4-year Electrical Engineering (co-op) major
- 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)

SKILLS

Programming: Python, Java, C, JavaScript, HTML, CSS, MATLAB
Tools and Frameworks: Vue.js, Git, Firebase, Selenium, GitHub, Visual Studio, Microsoft Office (Word, Excel, PowerPoint)

EXPERIENCE

DeltaHacks Executive – Web Developer *June 2020 – Present*

- Part of the team developing the software needed to run McMaster's hackathon (i.e. website, application portal)
- Utilized Vue.js, HTML, and CSS to build various front-end components for the hackathon's landing page in accordance with the design team's mock-ups
- Updated the administrative dashboard to track/display application statistics from Firebase (Cloud Firestore)
- Collaborated with team members to update the codebase using Git and GitHub
- Effectively managed my time to meet deadlines for deliverables on a tight schedule

Google Developer Student 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
- Helped facilitate a workshop to teach attendees how to create a personal website and host it on GitHub

PROJECTS AND HACKATHONS

Autonomous Arduino Car *June 2020*

- 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 for environmental awareness
- Programmed the planar autonomous motion and object detection functions in the Arduino language (C/C++)

Investment Tracker *May 2020*

- Developed an application that automates the process of opening the user's stock market watchlist whenever the computer is turned on, keeping the user up to date with the latest market conditions
- Written using Python and Selenium to navigate to the corresponding webpage and fill in the user's login credentials autonomously

DeltaHacks Hackathon *January 2019*

- Worked in a team of four to create a Python application to prevent impaired driving due to fatigue
- Used the OpenCV library to recognize facial features and actions correlated to tiredness
- Proved myself as a team player by assisting members when needed to ensure the project would be done on time