

# NEHA SOHAIL

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## Education

### University of Toronto

Sep. 2021 – May 2025

*Bachelor of Science in Computer Science (specialist) CGPA: 3.64/4.0*

*Mississauga, Ontario*

- **Deans List Scholar - Winter 2023**
- **Relevant Coursework:** Software Design, Theory of Computation, Algorithms and Data Structures, Software Tools and Systems, Computer Organization, Probability

## Technical Skills

**Languages:** Python, Java, C++, HTML/CSS, JavaScript, SQL, Ruby

**Developer Tools:** VS Code, Eclipse, PyCharm, IntelliJ, GitHub, Expo

**Technologies/Frameworks:** React Native, Django, GraphQL, Vue.js, Bootstrap, Linux, JUnit, JavaFX, Markdown, MongoDB, Flask, Pygame

## Experience

### Vidyard

May 2023 – August 2023

*Software Developer*

*Kitchener, Ontario*

- Developed features for self-serve subscription plans (**Plus and Pro**), spanning old and new versions.
- Implemented responsive front-end using **Vue.js**, ensuring an enhanced user experience.
- Utilized **Ruby on Rails** to create **GraphQL** schemas and integrated them with **MySQL** database.
- Integrated **Stripe API** for seamless payment processing within the platform.
- Managed Jira tickets, including SPIKE tickets, to successfully implement the **PLUS** upgrade flow.
- Conducted thorough testing of migration endpoints using **POSTman**.
- Collaborated with a cross-functional team of 6 developers, using GIT and adopting effective practices in a Kanban environment.
- Utilized **Datadog** to identify and prevent logging of over **75%** validation and card errors, enhancing monitoring accuracy.

### Mathematics and Computational Sciences Society

May 2022 – Present

*Video and Graphic Team Associate*

*Mississauga, Ontario*

- Created impactful Instagram reels, increasing engagement rate by **70%**.
- Designed professional IEC materials for Deerhacks hackathon, enhancing branding and sponsorship packages.

### Master of Management and Professional Accounting Uoft

May 2022 – March 2023

*Marketing Lead of Design and Web*

*Mississauga, Ontario*

- Utilized **Drupal CMS** to efficiently manage website updates.
- Developed, drafted, and coordinated social media content (instagram posts, reels, videos).

## Projects

### Google Developer Student Society Community Project – ELDEARLY | *React Native*

- Developed **React Native** application using **Expo** to empower elderly people with technology education.
- Implemented **MongoDB database** to store learning materials, accessed through MongoDB API on front end.
- Integrated chatbot feature using ChatGPT API by OpenAI, with plans to incorporate natural language processing in the future.
- Incorporated text-to-speech feature using **Expo Speech module** to narrate provided text.

### Amazon Customer Reviews Web Scraper | *Python*

- Developed a web scraper using Python and **BeautifulSoup4** to parse and extract the information from the “Amazon” webpages.
- Formatted 200+ data points into an organized list using loops and exported them as CSV files using python library pandas allowing further analysis with MS Excel .

### Huffman Coding Compression and Decompression | *Python*

- Compressed and decompressed the files (e.g., PEG, PNG) using the lossless data algorithm through binary trees.
- Built the Huffman tree from the input characters and traversed the tree to assign Prefix codes to characters.

### ChatBot | *DialogFlow, Flask*

- Leveraged Google’s Dialogflow to develop a sophisticated currency conversion chatbot for seamless and intuitive user interactions.
- Designed and deployed a **Flask** web application with **Ngrok** to create a robust back-end for currency exchange functionality.

## Leadership / Extracurricular

### Orientation Volunteer University of Toronto

- Outreached on campus about orientation and assisted first-year students in campus navigation.

### Ambassador for COVID awareness campaign funded by World Wide Fund-WWF

- Developed IEC Material for awareness-raising and advocacy on water conservation policies through social media platforms.

### Delegate

- **Brookdale International Education Centre, Lincroft, NJ, USA:** Strengthened analytical thinking by proposing solutions to real-world issues e.g. food insecurity in Somalia.
- **Roots Metropolitan Model United Nations:** As a delegate of Switzerland, conducted and presented research findings on women economic empowerment policies under UN women.