

# Ankush Sarkar

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## TECHNICAL SKILLS

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**Languages:** Typescript, JavaScript, Python, Go, SQL, php, C, HTML/CSS, Java, R, Haskell

**Frameworks/Technologies:** Vue, Nuxt JS, React, Next JS, Node, Flask, Three JS, TailwindCSS, OpenGL

**Tools:** Linux, Git, BaaS providers (Supabase, firebase), Sanity (Headless CMS)

## PROJECTS

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### Family Tree Visualizer ([App](#) | [Code](#))

- Built a full-stack application that enables users to create, store, and visualize family trees with ease.
- Utilized technologies such as **Nuxt.js**, **Supabase**, **d3-org-chart**, and **Tailwind CSS** to deliver an amazing user experience.

### Audio Visualizer ([App](#) | [Code](#))

- Implemented a captivating 3D audio visualizer that dynamically adjusts the dimensions of a 3D sphere based on the amplitude of the playing song.
- Employed technologies including **Three.js**, **Nuxt.js**, and **Tailwind CSS** to create an immersive and interactive audio experience.

### Multiplayer Tic Tac Toe ([App](#) | [Code](#))

- Engineered an engaging online multiplayer Tic Tac Toe game, allowing users to compete with friends and others in real-time.
- Implemented the project using **Vue.js** and **Flask-SocketIO**, ensuring smooth and responsive gameplay.

## EXPERIENCE

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### Web Developer

January 2023 – Present

*Computer Science Society McMaster University*

*Hamilton, ON*

- Successfully built and currently maintain the Computer Science Society website, providing an online hub for information and resources, resulting in a **80% increase in website traffic**.
- Utilized cutting-edge technologies such as **Astro**, **React**, and **Tailwind CSS** for a responsive and visually appealing website.
- Collaborated with a development team to implement new features, fostering innovation and teamwork.

### Web Developer

September 2023 – Present

*McMaster University Music Production Society*

*Hamilton, ON*

- Led the initiation and continuous maintenance of the McMaster University Music Production Society website, overseeing its entire development life cycle.
- Demonstrated proficiency in leveraging technologies, including **Nuxt.js**, **Tailwind CSS**, and **Sanity**.

### Web Developer

September 2022 – September 2023

*GDSC McMaster University*

*Hamilton, ON*

- Developed and maintained the GDSC merchandise storefront, resulting in a **20%** increase in online sales.
- Successfully managed and updated the GDSC McMaster website, improving user experience and increasing website traffic by **30%**.
- Leveraged a diverse skill set to work with multiple technologies, including **React**, **Firebase**, and **Tailwind CSS**, ensuring efficient and modern web development practices.

## EDUCATION

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### McMaster University

Hamilton, ON

*B.A.Sc. Computer Science CO-OP*

*2021 - 2025*

**Deans Honours List** - Present

### Relevant Courses

**COMPSCI 3SH3** *Operating Systems* (A+)

**COMPSCI 2C03** *Data Structures and Algorithms* (A+)

**COMPSCI 2DB3** *Databases* (A+)

**COMPSCI 3GC3** *Computer Graphics* (A)

## OTHER ACHIEVEMENTS

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Won an award at **DeltahacksHacks IX** for *Most Innovative Use of the Verbwire API*, for our project, **DiGiDegree**, a website prototype for authenticating online course certifications using block-chain technology.