

Jaden Moore

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Education

McMaster University

Expected Graduation: May 2026

Bachelor's of Software Engineering and Co-op

Relevant Course Work :

- Object Oriented Programming (**Java**), Data Structures & Algorithms (**Java, C++**), Software development (**C, Bash**)

Personal Projects

Autonomous Vehicle Assistance Simulation | *JavaScript, p5.js, HTML, CSS*

- Developed a route optimization application using **A* algorithm** to minimize energy consumption.
- Implemented a user interface allowing users to input start and end locations, providing real-time optimal path calculation.
- Integrated advanced pedestrian detection algorithms to alert drivers of nearby pedestrians, enhancing safety.
- Created an automated text response system and user-friendly call interface to reduce driver distraction using Programmed pre-set text reply options reducing driver distraction by 27%.

Responsive Website | *HTML, CSS, React.js*

- Developed a user-friendly website using **React.js** for a client that achieves a monthly traffic of **7,000k views**.
- Implemented a user-centric, responsive design for optimal performance across various devices screen sizes.
- Continuously maintain and optimize the website for optimal loading times, **SEO**, and scalability for future growth.

AI Website Summarizer | *React.js, Redux-toolkit, Tailwind CSS*

- Developed a web application using **React.js**, **Redux-toolkit**, and **Tailwind CSS** for automatic article summarization.
- Leveraged OpenAI GPT-4 for advanced **natural language processing** to generate accurate article summaries while meeting specific length requirements resulting in a 95% user satisfaction rate.
- Implemented a user-friendly and intuitive interface for inputting URL and displaying the summarized content.

McMaster Study Review Webapp | *React.js, Java Spring Boot, MongoDB, Bootstrap*

- Designed and implemented a web application to review McMaster study spots, using **React.js** and **Spring Boot** linked with **MongoDB** for backend functionality.
- Integrated **MongoDB**, reducing study spot information retrieval times by 25%, resulting in efficient data handling.
- Developed a responsive and intuitive user interface with **React.js**.
- Leveraged **Spring Boot** for robust backend development, facilitating seamless data processing and connectivity between the **MongoDB** database and the frontend, resulting in 12% less back-end errors.

Experience

Private Tutor, Halifax, NS

2020 – 2022

Self-Employed

- Tutored students in math and chemistry, fostering their understanding and academic growth.
- Tailored lesson plans to meet individual student needs and learning styles.
- Maintained clear and open communication with students and parents to ensure mutual understanding.

Skills

Languages: Java, JavaScript, Python, C , C++, Bash, HTML, CSS, JSON

Frameworks/Databases: React.js, Node.js, Redux.js, Express.js, Spring Boot, MongoDB, MySQL, Tailwind CSS, Bootstrap

Competitions/Awards: Achieved 3rd place team in McMaster's Engineering Coding Competition among 200 participants, McMaster Award of Excellence (\$3000)