

# Aditya Sahni

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## EDUCATION

### McMaster University

*Bachelor of Applied Science in Honors Computer Science with a Minor in Statistics*

Hamilton, Ontario

Aug. 2022 – July 2026

## EXPERIENCE

### Axesouár — Jewellery (Freelance)

Hamilton, Ontario

*Full-Stack Web Developer*

- Built a fully responsive e-commerce website using React.js to showcase **120+ unique jewelry SKUs**, providing an intuitive browsing and shopping experience for customers.
- Leveraged a broad tech stack—including **React.js, Node.js, REST APIs, Firebase, and MongoDB**—to build a scalable full-stack platform, which helped to increase site-wide flow by **60%**.

### DocOnline Health India Pvt. Ltd.

Mumbai, India

*Assistant Software Developer*

May 2024 – Sep 2024

- Collaborated within a software development team to build and deploy a scalable web platform optimized for medical data aggregation from live sources, including **Hindustan Times**.
- Engineered and integrated **REST APIs** to automate real-time data ingestion, validation, and processing for healthcare insights.
- Leveraged **AWS services** such as **EC2, S3, and Lambda** to architect a cost-efficient, cloud-native solution that improved system performance and reduced infrastructure overhead.

## PROJECTS

### Quantum Information Research | *STEM Research, Education*

- Selected for a research assistant position after multiple evaluation rounds.
- Worked with high-school students under Professor Vishwakarma on a real-life research project.
- Learned research methodology and promoted the application of STEM in problem-solving.

### Abstract Shape Collision Detector | *Java, UML, OOP Design Patterns*

- Developed a Java application to manage geometric shape interactions using a preset UML class diagram.
- Engineered and optimized intersection algorithms to detect edge-based shape overlaps.
- Implemented Composite, Iterator, and Singleton patterns for efficient and scalable management.
- Conducted extensive testing to ensure adherence to software specifications.

### Budget Tracker Application | *Flask, SQLAlchemy, Chart.js, Bootstrap*

- Designed and developed a full-stack expense tracker with **Flask and SQLAlchemy**.
- Built interactive dashboards using **Chart.js** for monthly and category-wise expense visualization.
- Enhanced user experience through a responsive UI using HTML, CSS, and Bootstrap.
- Achieved a **35% improvement in user satisfaction** through dynamic visualizations.

### Emotion Detector Using Deep Learning | *TensorFlow, Keras, OpenCV, Flask*

- Developed a deep learning model to detect emotions from facial expressions using CNNs.
- Trained on the **FER-2013 dataset** to classify facial emotions accurately.
- Implemented real-time detection with **OpenCV** and integrated webcam-based predictions.
- Built a Flask web app for deployment and optimized model performance through data augmentation and hyperparameter tuning.

## TECHNICAL SKILLS

**Programming Languages:** HTML, Java, SQL, Python, JavaScript (Frameworks: Node.js, React.js, Chart.js)

**Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Operating Systems, Database Systems, Computer Networks, Web Development, Automata Theory, Cryptography and Network Security

**Developer Tools:** Linux (Ubuntu), VS Code, Git, MongoDB, DBeaver (IBM DB2), AWS