

# David Braley

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## Profile

- Third-year Honours Computer Science student at McMaster University, available for 4-16-month co-op opportunities starting May 2025.
- Experienced full-stack developer with a proven track record of building and deploying scalable web applications using **React.js**, **Flask**, and **Node.js** in both startup and hackathon environments.
- Proven problem-solving and communication skills demonstrated through collaborating with clients on tailored software solutions and enhancing organization web platforms to drive user engagement.

## Education

**Bachelor of Applied Science Co-op (BASc) | Honours Computer Science (Co-op)**

2022 – 2027

**McMaster University, Hamilton ON (GPA 3.7/4)**

**Courses:** Development Basics, Algorithms and Software Design, Software Development

## Projects

**Cram-Bot | McMaster University, Hamilton ON**

Jan 2025

**DeltaHacks Hackathon**

- Led development of an AI-driven chatbot that supported over 100 students during finals week by delivering instant answers to FAQs and customized study tips, reducing stress and improving study efficiency
- Implemented the front-end interface using **React.js**, ensuring a user-friendly experience resulting in 25% higher engagement compared to baseline UI prototypes
- Designed and integrated a Flask backend with **spaCy** for natural language processing, enabling contextual conversation flow and consistent user retention
- Utilized **SQLite** to store study materials and user interaction data, enabling personalized responses

**Developer - Startup E-Commerce Platform | Hamilton ON**

May – Jul 2024

**ABC Startup**

- Developed and deployed a full-stack online store using **React.js**, **Node.js**, **Express.js**, and **MongoDB**, boosting customer checkout rates by 30%
- Optimized backend performance, reducing server response time by 25% to enhance user experience.
- Integrated secure Stripe payment processing, completing 200+ error-free transactions in the first two months
- Implemented **SSL** encryption via Let's Encrypt, strengthening data security and customer trust

## Extracurricular Activities

**Web Developer | McMaster University, Hamilton ON**

Sept 2023 – Present

**Software Engineering Society**

- Maintained and enhanced the society's website using **HTML**, **CSS**, **JavaScript**, and **WordPress**—ensuring 100% accurate content for over 500 monthly users and driving a 25% increase in engagement.
- Reduced website downtime by 30% through proactive debugging and regular system updates, improving reliability during peak usage.

## Skills

**Programming Languages:** Python, C/C++, HTML/CSS/JavaScript, Java, SQL, Haskell, MATLAB

**Libraries & Frameworks:** React.js, Node.js, Express.js, Flask, Django, MongoDB, spaCy, PyTorch

**Software Tools:** Git/Github, Heroku, Stripe, Nginx, AWS, WordPress, Windows, MacOS, Linux/Unix, MS Office Suite