

Ameya Gupta

Computer Science II - Co-op Student at McMaster University. Looking for 4-16 month co-op positions as of May 2026.

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Education

Bachelor's of Engineering: Computer Science - Co-op

Hamilton, Ontario

McMaster University (cGPA: 4.0/4.0)

Sep 2024 - Jun 2028 (expected)

- **Relevant Courses:** COMPSCI 2C03 - Data Structures and Algorithms, COMPSCI 2ME3 - Introduction to Software Development, COMPSCI 2GA3 - Computer Architecture

Technical Skills

Languages: TypeScript, Python, HTML/CSS, JavaScript, SQL, Java, C++, C, Haskell

Developer Tools: Amazon Web Services, Git, Vite, Pip, npm, Figma

Libraries/Frameworks: Next.js, NodeJS, React, Vue, Tailwind, Bootstrap, Flask, NumPy, matplotlib

Personal Projects

Dithering Web App 🌐 | *React, TailwindCSS, TypeScript, Flask, Amazon Web Services*

Aug. 2025

- Developed a full-stack web app using **React**, **TypeScript**, and a **REST API** in **Flask** hosted on **AWS**.
- Implemented a **serverless API** using **S3 storage**, **Lambda functions** and **AWS API Gateway**, resulting in **improved response times by 17%** and **47% faster file retrieval** compared to container-based alternatives.
- Built a CI/CD workflow using **CodePipeline** connected to a Github repository, allowing for automatically-managed testing and global deployment.

ML Instrument Tutor 🌐 | *OpenCV, TensorFlow, Vite, React, TypeScript, PyGlet, MediaPipe*

Jan. 2025

- Collaborated on an application for **DeltaHacks XI** that utilizes a custom-trained **ML model** trained using **TensorFlow** and **OpenCV** to detect chords from hand positions.
- Created a modular interface in **React** that allows educators to develop lesson plans using a library of **5+ components**, streamlining lesson creation.

AI Fake News Detector 🌐 | *HTML, TailwindCSS, JavaScript, Python, Flask, Cohere*

May 2024

- Developed a misinformation-detecting Chrome extension for **WolfHacks '24**, improving users' ability to **identify misinformation by 30+%**.
- Trained a custom ML model using **SciKit** and **NLTK** to determine the validity of information online with **95% accuracy** and **sub-second responsivity**.
- Utilized the **Cohere API** to create an **AI agent** that provides quotes to **alternative perspectives from the web**.

Adaptable Symmetry Figma Plugin 🌐 | *HTML, TypeScript*

Oct. 2023

- Designed and built a **Figma** plugin that generates symmetrical graphics based on input layers, accruing **2000+ users**.
- Improved satisfaction among designers via an **A11Y accessible interface**, **improving productivity by 15+%**.

Experience

Mac Start Coding

Hamilton, Ontario

Software Architect

Aug 2025 - Present

- Collaborating on a web-based programming tool used by **70+ educators** and **10,000+ students** using **Integrated Haskell Platform (IHP)** to address changing tech education needs.

Computer Science Society

Hamilton, Ontario

Web Developer + Designer

Aug 2025 - Present

- Developing a dynamic, content-driven website using **Next.js**, **React**, **TypeScript**, and a **Go-based backend**, improving upon previous **page load speeds by 35%** and **enhancing SEO rankings**.
- Creating a **new, scalable design system** within **Figma**, standarizing **UI components** across **3+ projects** and **reducing development time** for new components by **40%**.

Awards, Licenses & Certifications

AWS Certified Cloud Practioner

Credential Link

Amazon Web Services

Jan 2025

The Complete C++ Developer Course

Udemy

John P. Baugh

Nov 2022