

# 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

*McMaster University (cGPA: 4.0/4.0)*

Hamilton, Ontario

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**, standardizing **UI components** across **3+ projects** and reducing development time for new components by **40%**.

## Awards, Licenses & Certifications

### AWS Certified Cloud Practitioner

Credential Link

*Amazon Web Services*

Jan 2025

### The Complete C++ Developer Course

Udemy

*John P. Baugh*

Nov 2022