

# Ameya Gupta

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## Education

**B.Eng - Computer Science**

*McMaster University*

**Hamilton, Ontario**

*Sep 2024 - Jun 2028 (expected)*

## Technical Skills

**Languages:** HTML, CSS, JavaScript, TypeScript, Haskell, C, C++

**Tools:** Git, Github, Vite, Node.js, NPM, AWS, Figma, VSCode, Cohere

**Libraries/Frameworks:** React, Tailwind, Framer Motion, Flask, NumPy, Matplotlib

## Personal Projects

**Dithering Web App** | *Vite, React, TailwindCSS, TypeScript, Flask, Amazon Web Services (AWS)*

- Developed a retro-themed web app that allows users to play around with image dithering algorithms on uploaded images, deployed on **AWS** for **low global latency** and **low-cost serverless API development**.
- Built a responsive **REST API** to process and dither images within **100ms** using an **MVC** architecture within **Flask**.
- Implemented **highly-modular image processing algorithms** with **PIL**, achieving 80% less code and 15% faster processing compared to traditional methods.
- Created **intuitive custom input components** in **React**, allowing for users to create, save, and use **100+** configurations via a **user-centric modular interface**.

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

- Developed a **Chrome extension** for **WolfHacks '24** to detect **fake news and AI-generated content** online and **provide alternative perspectives**, **improving users' ability** to identify misinformation by **30+%**.
- Trained and utilized a custom ML model using **SciKit** and **NLTK** to **tokenize** and determine the validity of information online with **95% accuracy** and **sub-second responsivity**.
- Integrated the **Cohere API** to create a powerful **AI agent** to provide links and quotes to **alternative perspectives from the web**, providing a concise, well-balanced palate of information.

**Adaptable Symmetry Figma Plugin** | *HTML, TailwindCSS, JavaScript, Python, Flask, Cohere*

- 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

**Google Developer Student Club**

**Hamilton, Ontario**

*Web Designer*

*Jan 2025 - Present*

- Developing a dynamic, content-driven website using **Next.js**, **React**, **TypeScript**, and **Sanity CMS**, 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%**.

**HB CodeLink**

**Brampton, Ontario**

*Founder & President*

*Aug 2022 - Jun 2024*

- Led a team of 5 students to effectively tackle our mission of **building up a strong CS portfolio** for every student.
- Developed workshop content and presentations to ensure high-quality, palatable workshops for **100+ students**.
- Organized seminars with industry professionals to provide valuable insights and networking opportunities for members.

**HB Hack Club**

**Brampton, Ontario**

*President of Design*

*Aug 2020 - Jun 2022*

- Designed and produced **20+** UI and graphic design workshops for **70+ students**, improving attendees' knowledge of design principles, **Figma**, and plugin development.
- Provided resources and support to members throughout the year, **improving enrolment** by **20%** from the year prior.

## 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*