

Ameya Gupta

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Education

B.Eng - Computer Science

McMaster University

Hamilton, Ontario

Sep 2024 - Jun 2028 (expected)

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 **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, TypeScript*

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

Codespire

Toronto, Ontario (Hybrid)

Marketing Director

Oct 2022 - Sep 2024

- Oversaw social media accounts and effectively utilized interactive media to increase **engagement rate** by **7%** and **follower count** by **18%** in **1 year** (2022 - 2023)
- Led **branding & creative projects**, including Instagram posts, posters, videos and merchandise

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.

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