

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

Web Designer

Hamilton, Ontario

Mar 2023 - Sep 2024

- 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

Founder & President

Brampton, Ontario

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

President of Design

Brampton, Ontario

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

Amazon Web Services

Credential Link

Jan 2025

The Complete C++ Developer Course

John P. Baugh

Udemy

Nov 2022