Ameya Gupta

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Education

B.Eng - Computer Science | **Hamilton, Ontario**
McMaster University | *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** and **custom input components** in **React**, allowing for users to create, save, and use their own dithering algorithms 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 from the web**, **improving users' ability** to determine 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 | *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 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%**.
- Optimized **site navigation** and **layout** based on user testing feedback, decreasing **bounce rates** by **25%**.

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*