

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 using **React**, **TypeScript**, and a **REST API** in **Flask** that allows users to play around with image dithering algorithms.
- Hosted static content in an **S3 bucket** connected to a **CloudFront distribution**, resulting in **sub-100ms request latency**
- Implemented a **serverless REST API** using **Lambda functions** and **AWS API Gateway**, allowing for **automatic scaling**, **17% faster response times** compared to container-based alternatives, and faster development
- Built a **CI/CD workflow** using **CodePipeline** connected to a **Github repository**, allowing for **quick, automatically-managed global deployment**.

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

Web Designer

Hamilton, Ontario

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%**.

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.

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