

# Ameya Gupta

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## Technical Skills

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**Languages:** JavaScript, Python, HTML/CSS, C++

**Developer Tools:** Git, Vite, Pip, npm, Figma

**Libraries/Frameworks:** React, Vue, Tailwind, Bootstrap, Flask, NumPy, matplotlib

## Education

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**Harold M. Brathwaite Secondary School**

*International Baccalaureate Program*

**Brampton, Ontario**

*Sep 2020 - Jun 2024 (expected)*

## Experience

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**HB CodeLink**

*Founder & President*

**Brampton, Ontario**

*Aug 2022 - Present*

- Leading a team of **5 students** to effectively tackle our mission of **building up a strong CS portfolio** for every student
- Developing workshop content and presentations to ensure **high-quality, palatable workshops** for over **50+** students
- Spearheading promotion, outreach, and marketing campaigns, resulting in **2.2x increase** in followers from Sep. to Oct.
- Organizing communication between team and student members to foster a **safe, fun, & educational environment**

**HB Hack Club**

*President of Design*

**Brampton, Ontario**

*Aug 2020 - Jun 2022*

- Designed and produced **UI and graphic design workshops** for **70+** students
- Organized **15+ workshops** to incite **experiential-learning** for **30+ attendees**
- Provided resources and support to members throughout the year, **improving enrolment by 20%** from the year prior

## Personal Projects

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**Median Cut Quantization Study | Python | [Link](#)**

- Designed and implemented **recursive algorithms** in **Python** to undergo the algorithm and record pertinent data, such as time taken and **structural similarity**
- Utilized **OOP techniques** to parse and translate data between packages
- Formatted data with a variety of **matplotlib** plots, such as line charts, heatmaps, and 3D scatter plots
- Proved the algorithm's **O(n) time complexity** and found the **algorithm suffers in high-contrast, high-detail areas**

**MirrorMult (Figma) | HTML, CSS, JavaScript, TypeScript | [Link](#)**

- Designed and built a Figma plugin that generates symmetrical graphics based on an input layer, accruing over **500+** users within **3 months** of release
- Boosted **productivity** among Figma designers, **improving project productivity by 15+%**
- Ideated and created a **UI mockup** for the pages of the plugin in line with **A11Y** accessibility standards

**SlaySchools UI Mockup | Figma | [Link](#)**

- Designed a UI prototype in **Figma** in line with **A11Y** accessibility standards
- **User testing** showed a **12% increase in engagement** and a **1.7% increase in conversion rate**
- Implemented **reactive components** and **conditional rendering** to ensure a seamless transition from prototype to development, **improving developer productivity by 10%**

**MirrorMult (Blender) | Python, BPy | - [Link](#)**

- Leveraged **BPy** fundamentals to create an easily-usable symmetry add-on for Blender
- Received **testimonials from 3D modellers**, indicating a **project time reduction** of **9%** on average
- Exercised fundamentals of **OOP** and **layout with template UI elements**
- **5+ stars** on the project's Github repository