James Cao

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SKILLS

Languages: Python, JavaScript, HTML/CSS, C++
Developer Tools: Git, Github, VS Code, PyCharm, AWS, Figma, Postman, Fusion 360
Libraries: React, Django, Next.js, Tailwind, Pandas, PostgreSQL, NumPy, Matplotlib, Flask, Bootstrap, Werkzeug

EXPERIENCE

Director   Sep. 2023 – Present
Hack Canada   *Waterloo, Ontario*
- Lead a team of **30+** students to plan and execute a **36-hour hackathon** with over **400** attendees that focused on a culture of teamwork and innovation.
- Utilized Google Sheets to track finances and monitor budgets of over **18k CAD**. Created and presented Google Slides to sponsors and partners, pitching ideas and showcasing project progress to securing over **23** sponsors
- Met regularly with team members to **track** progress, **provide guidance** to ensure a supportive and collaborative environment.

President   Dec. 2023 – Present
Hackathons Canada   *Ontario, Canada*
- Collaborated with the team to **develop and launch** a website using **Django, Tailwind, HTML/CSS**, and negotiated for partnerships with other Hackathons.
- Reviewed **110+** applications and conducted **50+** interviews, contributing to the selection of talented individuals to add to the the team.
- Planned the social media growth strategy, increasing monthly views from 0 to **2.3M+** via memes and educating content. Expand the community from 50 to **5,000+** members.

Executive   Sep. 2023 – Present
Student Council   *Toronto, ON*
- Collected feedback for the school, presented ideas, and advocated for student interests during meetings with school administration.
- **Collaborated with classmates** to make informed decisions on school events, initiatives, and policies, ensuring alignment with student needs and preferences.
- Managed budgeting and **financial planning** for student council projects, ensuring efficient allocation of funds and transparent financial reporting.

Team Lead   September 2022 – Present
Electric Vehicle Team   *Burlington, Ontario*
- Designed parts of the chasse for the vehicle using Fusion 360, communicating with other team leads.
- **Developed** the club's website using **Flask (Python)** for the backend and **HTML/CSS** with **Bootstrap** for the frontend.
- **Deployed** the website on **AWS**, using a **EC2** instances along with Elastic Ip and **Cloudflare**.

PROJECTS

Checkmint | *Plasmo, Typescript, Tailwind, Figma*   June 2022 – July 2022
- The extension allows a typing replay feature, allowing teachers to review the typing process of a document to identify potential AI usage or plagiarism.
- Prototyped the user interface using Figma and developing the Chrome **extension** using Plasmo, a framework built on TypeScript, to create a robust and efficient tool.

Laser Engraver | *Hardware, Fusion 360*   January. 2025
- Designed and modeled precision parts for a laser printer using Autodesk Fusion 360, ensuring compatibility and functionality for the final assembly.
- Soldered electronic components, including microcontrollers, motors, and wiring, to assemble the core electrical system of the laser engraver.

EDUCATION

Nelson High School   Burlingon, ON
Current   *June 2026*