Chelsea Wong

in chelseawong07

Education

William Lyon Mackenzie Collegiate Institute

2020-2024

MaCS Program (specialized Math and Computer Science program with a 13% acceptance rate)

Toronto, Canada

• Extracurriculars: Math Club President, Yearbook Team Senior Designer, Student Council Software Rep, Physics Club Executive, Calligraphy Club President, Cybersecurity Club Executive and Problem Setter, Mackenzie Science and Engineering Olympics Event Leader, DECA/FBLA, and Art Council Website Lead Developer and Front of House.

Johns Hopkins University

2024-2028

BS in Biomedical Engineering & Computer Science

Baltimore, Maryland

Experience

X Series CTF

Feb 2023 - Present

Organizer, Problem Setter, and Founding Member

Remote

- · Organized 3 cybersecurity capture-the-flag contests partnering with local high schools, attended by a total of 1,100+ global teams ranging from middle school level to post-graduate level.
- Took upon logistics, marketing, and outreach roles, and obtained a combined \$20,000 in prizes.
- Created multiple challenges focusing on digital forensics and OSINT.

Project Metropolis @ WLMCI

Feb 2022 - June 2024

Project Manager and Founding Member

Toronto, Canada

- Led team of 30+ developers, graphic designers, and writers to develop, update, and maintain our school's app and website which include announcements, blogs, games, and podcasts, used by 1100+ users and 700+ downloads.
- Coordinated tasks between multiple frameworks used; **Django** for backend and website and **React Native** for app.
- Worked alongside the Student Council to increase student involvement in school clubs and initiatives.

Bonfire Nov 2020 - Present

Founder and Administrator

- Created an online community to connect students graduating in 2024 across the Greater Toronto Area, especially during lockdown. Implemented moderation, content regulation, and verification to keep the community safe.
- Hosted gaming tournaments, giveaways, study sessions, and movie nights, and created spaces for homework help, mental health, and sharing opportunities for 1,200+ students from 80+ schools.

Mackenzie Computer Programming Team @ WLMCI

Oct 2022 - June 2024

Vice President and Marketing & Outreach Lead

Toronto, Canada

- Delegated, oversaw and provided feedback for apparel design, graphics, and promotional material to promote the club, and initiatives including their district-wide hackathon, CTF, and game jam
- Reached out to potential guest speakers, sponsors, collaborating high schools, and judges for our initiatives.

July 2024 Jane Street

WiSE Program Invitee and Attendee

New York City, USA

Hackathons Canada

Ignition Hacks

Apr 2024 - Present

Vice President and Marketing Lead

Remote

Organizer and UI/UX & Marketing Executive

Mar 2023 - Aug 2023

Remote

Projects **6**

signematic | Python, Node.is, FastAPI, ThreeJS, MediaPipe, AdobeAPI | 2nd Overall, MLH Best AdobeAPI at JAMHacks

- Created software that auto-generates accurate time-synced sign language transcriptions as a video from any video based on special ASL grammar (with the help of natural language processing models). Compatible with Adobe Express as an add-on for content creators and with Youtube as a Chrome Extension for viewers.
- Leveraging advanced algorithms and gesture models, our solution aims to enhance the viewing experience for the deaf and hard-of-hearing community by making entertainment more accessible.

• Implemented a medication assistant as a safer and more accessible way to manage medication for those with language barriers and sight or memory issues. Generates QR code labels accompanied by an web app for detailed and personalized dosage information in multiple languages and text to speech instead of the original small hard to read labels. Includes notification, scheduling, and refill reminding features.

cleancue | Python, OpenCV, Cohere, RaspberryPi, CUDA, Taipy | Best Use of Taipy at Hack the North 2023

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- Created a surveillance camera that tracks clutter, hazards, unused items, and left out food in shared spaces using computer vision and acts like a parent with speech and notification reminders aimed towards roommates, parents, and dementia patients.
- Used OpenCV and Python for the computer vision, and used Cohere and other APIs for text to speech and personality.

pengage | Diango, SQLite, HTML, CSS, Bootstrap | National Finalist at FBLA CNLC 2023



- Built a web-based platform that allows students to easily track and sign up for school events, participate in challenges and earn points, and compete with their peers for prizes and recognition as a way to increase student participation in school events and activities, which was the given prompt.
- Included an events, points, attendance, reward, badge, and leaderboard system.

Technical Skills

Languages: Python, Java, C++, JavaScript, HTML/CSS, Ruby, Processing

Frameworks/Engines: Django, Flask, React, React Native, Unity (currently learning)

Tools: VS Code, GitHub, MongoDB, Figma, Adobe Photoshop/Illustrator, Blender, SketchUp, DaVinci Resolve, Procreate

Awards

10x Hackathon Winner: HackMIT (2024), JAMHacks 8 (2024), FBLA CNLC National Finalist (2023), Hack the North (2023), JAMhacks 7 (2023), Holiday Game Jam (2023), LyonHacks II (2022), Holiday Game Jam I (2022), SuperPOSITRON (2021), LyonHacks I (2021), attended 17+.

Programming Contests: Canadian Computing Contest Sr. Honour Roll, 3rd Highest Female Score (2022); European Girls' Olympiad of Informatics Team Canada Training Camp Invitee (2022, 2023); UC Berkeley CALICO Fall '22 6th/271 (2022); participated in 30+ contests.

Cybersecurity Contests: CyberPatriot XVI 1st in Canada and top 0.30% globally (2024), CyberPatriot XV 2nd in Canada and top 0.28% globally (2023); 8th CTF team in Canada (2022), participated in 44+ contests, top 10% in a couple.

Misc: NCWIT Aspirations in Computing Award Winner (2024); Friesens Cover Contest Bronze Winner (2024); New York Times Sixth Annual Podcast Contest Finalist (2023); Multiple Math Contest Distinctions (2021-2024); Canada Girls' Math Challenge Sr. 2nd (2023); IKEA Soft Toy Drawing Competition National Finalist (2019); Toronto Science Fair Bronze (2023).