Harley Zhang

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Education

University of Waterloo   2024 – 2029
Bachelor's of Computer Engineering, Co-op   *Waterloo, Ontario*

Professional Experience

Yale University   Mar 2021 – Present
Software and Data Analysis Intern   *New Haven, Connecticut*
- Ran simulation models using Bash and analyzed output data using R to evaluate climate change in Colorado.
- Created and deployed EcoForecast, an online app using Google Earth Engine JavaScript API to display simulation climate change data in drylands in the US for ranchers and land managers.
- Developed a neural network to automatically classify wildlife images for species identification.

University of Toronto   May 2023 – Dec 2023
Research Assistant   *Toronto, Ontario*
- Classified land uses (e.g. water, grass, forest) in historical aerial images of the city of Toronto.
- Trained a neural network using manually classified images to automatically sort land uses.
- Analyzed the impacts of urbanization in Toronto over the past century based on land use changes and landscape dynamics.

Kumon Learning Centre   Jun 2023 – Sep 2023
Teaching Assistant   *Toronto, Ontario*
- Taught students aged 3-18 math, reading, writing and provided feedback for educational support.
- Evaluated student performance by grading examinations and tracking improvement by maintaining assessment records.

Leadership Experience

Harvard Medical School   Apr 2021 – Present
American Lung Cancer Screening Initiative   *Boston, Massachusetts*
- Delivered lung cancer screening workshops for health and community organizations in Canada and the US.
- Engaged in outreach efforts to US Senators and Representatives to advocate for bills involving lung cancer education and screening guidelines.
- Worked with local and regional US government leaders to create and distribute public service announcements on local lung cancer screening programs.

Unionville Future Business Leaders of America (FBLA)   Oct 2020 – Present
President and Founder   *Markham, Ontario*
- Assembled and led a team of 10 executives and trainers to develop comprehensive training and marketing resources for the chapter.
- Delegated weekly training sessions held by trainers covering topics on business, economics, and finance for over 100 members.
- Oversaw member organization and assistance at the Canadian National Leadership Conference.

Skills

Languages	JavaScript, HTML/CSS, R, Bash, C/C#, Python
Technologies	React.js, Tailwind CSS, Google Earth Engine JavaScript API, OpenAI API
Tools	Git, Word, Outlook, Excel, PowerPoint, Drive, VS Code, Dropbox

Awards

1st Place	Introduction to Business — FBLA Canada 2021
National Finalist	Economics — FBLA Canada 2023
Chapter Expansion Award	FBLA Canada 2023
2nd Place	Researched Persuasive Speaking — HOSA Canada 2020
3rd, 5th Place	Epidemiology — HOSA Canada 2022, 2021
5th Place	Pathophysiology — HOSA Canada 2022