Margaret (Maggie) Chen

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PROJECTS & HACKATHONS

2022 ElleHacks Scotiabank Challenge Winner

- Created MEALFIX, a website that allows users to purchase safe and delicious food products, that would have otherwise been thrown out by restaurants and stores, at a discounted price; this solution addresses the issue of food insecurity of low-income individuals and excessive food waste by stores.

Sous-chef (Java with Android GUI, maintained with Git Version Control and Jira)

- An android app that keeps track of various details of the user's food inventory and suggests recipes based on these factors (i.e expiry date). Implemented design principles and patterns, SOLID principles, clean architecture, and more, making a clean and flexible program that also considers accessibility needs of users.

My Website (HTML, CSS, JavaScript, maintained with Git Version Control) *https://maggiechn20.github.io/*

- Self studied HTML/CSS and Javascript to design and code my own website that tells visitors a bit more about me.

EXPERIENCE

Workshop Director, EEG and Machine Learning Researcher **January 2022 - Present**

NeuroTech at University of Toronto

- Create a mind controlled computer (i.e EEG determined keyboard and eye tracking cursor), utilizing the interdisciplinary nature of electrical engineering, ML, neuroscience, and more.
- Create 11 educational workshop sessions for club members and post-secondary students by coordinating 10+ ML, neuroscience, and computer science mentors; creating new workshop content; updating old content; and keeping GitHub material/syllabus up-to-date.
- Maintain email communications with workshop students, sending weekly reminders with assigned readings.

Research Intern **May 2019 - September 2021**

Affective Science and Culture Lab at Yale University

- Conduct and learn basic fNIRS data analysis, such as motion artifact detection and correction, using MATLAB applications Homer3 and AtlasViewer.
- To research correlation between culture and emotional granularity, use Nvivo to code and run inter-reliability tests for 25+ participants (in both Mandarin and English).
- Recruit, screen, and schedule meetings with individuals to collect stimuli for research studies. Resulted in the creation of a database of stimuli that were, and can be, used in the lab's research projects.

Research Assistant **August 2019 - November 2020**

Snyder Lab at University of British Columbia

- Using ImageJ, map out neurogenesis within 50+ cross sections of amygdalae to research the correlation between neurogenesis and clinical depression.

Second-Year Representative **September 2021 - April 2022**

Neuroscience Association for Undergraduate Students at University of Toronto

- Connect the hundreds of students in the University of Toronto Neuroscience community with neuroscience professionals in various settings through monthly panel and information events.

Transition Mentor **September 2021 - April 2022**

Victoria College at University of Toronto

- Support the transition of first-year students into Victoria College by facilitating opportunities for first-year students to meet other students and to engage meaningfully in academic and extracurricular life at Victoria College.
- Represent the values and interests of Victoria college, including equity, diversity, and inclusivity.

AWARDS, SCHOLARSHIPS, AND CERTIFICATION

The Clifton Graham Roberts Admission Award @ University of Toronto **2020**

- Awarded to one newly admitted student who is involved in school and community services and has great scholastic achievement. Valued at $5000.

The BC Excellence Scholarship from the Province of British Columbia **2020**

- Awarded to the top 55 British Columbia high school graduates who demonstrate service, leadership, and aptitude and commitment to their chosen career paths. Valued at $5000.

Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans **2020**
Course on Research Ethics

EDUCATION

University of Toronto, *Honours Bachelor of Science in Computer Science and Neuroscience* **Expected 2024**

- GPA: 3.98/4.00
- Related Coursework: Software Design (Java), Introduction to Computer Science (Python), Probability with Computer Applications (R), Mathematical Expression and Reasoning for Computer Science, Introduction to the Theory of Computation, Data Structures and Analysis, Computer Organization