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Chloe Wu

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Multipotentialite with an interest in exploring innovations for improving consumers' quality of life, leveraging broad-based skills in chemical biology, project management, and user experience.

WORK EXPERIENCE

Suncor Energy - Faculty of Chemical Engineering, McMaster University – Hamilton, ON January 2021 – Present
Research Laboratory Intern

- Conduct research biotesting for disinfectant efficacy against *Pseudomonas aeruginosa* and *Staphylococcus aureus* under the supervision of Dr. Hoare Lab at McMaster University and the Biointerfaces Institute.
- Synthesize and characterize formulations of antimicrobial coating electropolymeric complexes for long term surface protection, preparing presentations on a monthly basis to present results and research updates.
- Experience with digital light scattering (DLS) for particle size and zeta potential characterization as well as biotesting protocols such as: Single Tube Method for biofilm grown in CDC biofilm reactor, Crystal Violet Assay.

LEAP Canada (supports transition of secondary students to post-secondary opportunities) June 2020 – Present
Social Media Director

- Manage and drive motivation for a team of 10 volunteers to create and execute market research and strategies.
- Led 20+ social media campaigns across Facebook, LinkedIn, Instagram and TikTok, reaching 700,000 students – building skills in project management, leadership and experience in organizational tools like Trello and Notion.
- Set monthly objectives for the professional and personal development of each member within the division to encourage growth within the team and drive motivation to successfully create social media strategies.
- Promoted in one month from graphic designer for involvement and initiative in the marketing department.

Faculty of Chemistry & Chemical Biology, McMaster University – Hamilton, ON September 2020 – January 2021
Chemistry Teaching Assistant

- Tutor a group of 40 first year chemistry students by answering questions, holding study sessions, and moderating discussions through a virtual help desk and dedicated synchronous office hours held on Microsoft Teams.
- Support first year students in their transition into university in the virtual learning space.
- Received consistent positive student feedback on approachability, clarity and attentiveness.

Harrison Lab, McMaster University – Hamilton, ON May 2020 – September 2020
User Interface Developer

- Initiated a web development project after COVID-19 cancelled research to replace professor's outdated lab website.
- Translated complex technical concepts to an appropriate level to personalize website for the end user.
- Self-taught prototyping and coding on Adobe Creative Cloud and React.js to build responsive webpages from scratch to develop an easy-to-use and informative user experience targeted to university researchers.

McMaster Asian Federation of Charitable University Students – Hamilton, ON September 2018 – Present
President

Asian FOCUS is a student-run university organization with a focus in philanthropic contributions while holding cultural and social events to celebrate and emphasize the complexity of Asian culture within our campus and student body.

- Create and execute *Humans of AF*, consisting of interview-style features of McMaster students.
- Initiated infrastructure changes, including instructional guides for new executives, a structure for workflow, as well as a new communication platform. Resulting in overall improved club operations.
- Build transparent relationships with club members for efficient communication.
- Initiated and managed promotional merchandise, increasing our campus presence, in addition to creating marketing material for large-scale events, garnering over 500 attendees.

EDUCATION

McMaster University, Hamilton, ON

2018 – Present

Honours Bachelor of Science (B.Sc.), Chemical Biology Co-op, Minor in Sustainability

Expected May 2023

Courses of instruction: organic, polymer, physical, analytical, inquiry-based chemical biology and computer science.

- Technical skills include instrumental analysis (NMR, HPLC, GCMS), WHMIS, Standard Operating Procedures.
- Major Project: A Novel Approach for Cannabis Potency Field Testing using Microchip Supercritical Fluid Chromatography Coupled Mass Spectrometry (SFC-MS) where I worked in a group of 5 students to present a proposal for a novel analytical method for cannabis testing.

ADDITIONAL SKILLS

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| ▪ Skilled in UI design (Adobe) and web development (HTML, CSS, React.js) | ▪ English, Mandarin, and Cantonese (proficient); French (basic) | ▪ safeTALK Suicide Alertness Certification; Living Work |
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