Annie Phan

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Education

McMaster University   Hamilton, ON
Bachelor of Computer Engineering (GPA: 3.94)   *Sept 2022 – April 2026*

Experience

Programming and Web Assistant   **April 2023 – August 2023**
Department of Engineering, McMaster University   *Hamilton, ON*

- Conducted research to gather and synthesize information for communication content, collecting data to compile usage statistics of communication outlets and providing suggestions for improvements based on observations.
- Developed and maintained website content, edited HTML and CSS ensuring high quality and accessibility of web content.
- Contributed to internal communications projects, including e-newsletters, print publications, and video production, utilizing software and programming knowledge to create graphics, photos, and video assets.
- Assisted program/department staff in planning, coordinating, and implementing various communication projects.

Undergraduate Research Assistant   **April 2022 – Aug 2022**
David Braley Health Science Centre, McMaster University   *Hamilton, ON*

- Collaborated with the research team of 5+ members for chart reviews, data extraction, quantitative data analyses and prepared data finding summaries under the supervision of Dr. Dee Mangin for the Ontario COVID@Home Monitoring Program.
- Analyzed and maintained data through NVivo, SPSS, Microsoft Office and REDCap software programs.
- Synthesized research knowledge and developed plain-language research summaries for research projects following methodologies.
- Conducted interviews and focus groups then coded and cleaned qualitative linguistic data used to improve McMaster's Pilot Research Project.

Teaching Assistant   **Sept 2018 – April 2023**
Kumon Canada   *Mississauga, ON*

- Collaborated with the head instructor to generate reports and lesson plans through Kumon database software and Excel for 60+ students.
- Utilized Kumon grade book platform to service 30+ students daily for tutoring.
- Troubleshoot upkeep of database and maintain classroom equipment, and student worksheets.

Projects

System for Sterilizing Surgical Tools | *Python, Quanser Interactive Labs*   **Nov 2022 – Dec 2022**

- Developed a Python program to transport surgical tools inside a container to facilitate sterilization in a simulated environment using Quanser Interactive Labs.
- Utilized virtual potentiometers to control the transport mechanism, providing precise and accurate control over the surgical tools.
- Implemented a user interface to control the program, providing a user-friendly experience for medical professionals.
- Created documentation for the program to ensure ease of use and maintainability.

System for Recycling Containers | *Autodesk Inventor, 3D Printing*   **Jan 2023 – Feb 2023**

- Collaborated with a team of engineers to design and model a recycling mechanism that accurately and efficiently sorts and recycles containers.
- Utilized Autodesk Inventor to design, model, assemble, and engineer drawings of the recycling mechanism.
- Conducted preliminary and refined concept sketches for the mechanism using both rotary and linear actuators.

Technical Skills

Languages: Python, JavaScript, HTML/CSS, R, SQL
Frameworks: ReactJS
Developer Tools: Git, VS Code, Visual Studio, PyCharm
Tools/Software: Microsoft Office (Word, Excel, PowerPoint, SharePoint), AutoCAD Software, MATLAB