

Sarah Khan

s64khan@uwaterloo.ca | 1B Systems Design Engineering | 519-573-1606 | [LinkedIn](#) | [Github](#)

Skills

Languages: C, Python, JavaScript, Java, C++, SQL, CSS, and HTML

Applications: MatLab, Replit, TKinter, WordPress, AutoCAD, Autodesk Inventor, SolidWorks, Figma, Selenium, Jira, React.js

Experience

Software Engineer Intern - Eon Media, Toronto, ON **January 2024 - April 2024**

- Testing of product by building automation using Selenium and Python Requests APIs while optimizing AI models
- Annotations for the AI Models using Figma and Jira while building new annotation tool using React and HTML
- Enhanced AI models by implementing changes through Roboflow, increasing accuracy and efficiency in logo detection

Computer Science Intern - University of Waterloo, Waterloo, ON **July 2022 - August 2022**

- Worked with Python to develop calculator based on the Curta Calculator in order to illustrate mechanism
- Created an exhibit involving old mechanical calculators and developed simulators explaining the overall function
- Learned to use UW website software and added blog posts, as well as enhanced overall UX design of the website

Web Development Intern - Braathe Enterprises, New York, U.S **January 2022 - April 2022**

- Led intern team to increase client engagement on website and used project management software to organize weekly tasks
- Increased user engagement by 30% in quarter by conducting market research, strategic reports, and developing project plans
- Improved website design using WordPress, HTML, and CSS while monitoring performance and troubleshooting issues

Project Lead - Rumie, Toronto, ON **July 2021 - December 2021**

- Built online microlearning content called Bytes about life and career skills to support young adults with daily struggles
- Led a team of 5 members to create Bytes and offered constructive feedback through peer review on a weekly basis

Projects

Space Race Game ~ Python **June 2023**

- Coded game using Pygame that had graphics, allowed characters to have “gravity” when jumping, and set a space theme
- Had a scoreboard, and obstacles which user needed to manoeuvre through and had options to choose colour of character

Mortgage Calculator ~ Java **February 2023**

- Coded a calculator used to estimate overall mortgage costs as well as having an option to create household budgets
- Received positive feedback from from 30+ real estate clients who expressed high satisfaction for the tool

Girls in STEM Olympics Competition, Mississauga, ON - Theory6 Robotics **November 2021**

- Awarded Judges Award (2021) and 4th place (2020) out of 60 participants, with judges from Microsoft and Quanser
- 2-day competition creating solutions for real-world mechanical, electrical, and software design problems

Education

B.A.Sc. in Systems Design Engineering at University of Waterloo **Class of 2028**

Relevant Courses: Data Structure and Algorithms, Digital Computations, Introduction to Systems Design

Presidents Scholarship of Distinction (Admission Average of 95%+)

Additional Courses **July 2021**

CS50X Introduction to Computer Science - Harvard University

Blockchain Technology - BerkeleyX