Sean Lee

Aspiring software developer seeking to leverage my strong mathematical and problem-solving skills in the workplace.

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PROJECTS

Firefighter Maze Bot

- Created a robot from scratch by designing and soldering circuitry.
- Programmed a PIC microcontroller with an algorithm to find and extinguish a fire located in a maze.
- Collaborated with a teammate to design and build the robot, demonstrating strong teamwork and communication skills.

Urbanization Model

- Created a cellular automaton to model the growth of modern civilization in close proximity to a coastline.
- Conducted statistical research and created visualizations to simulate urbanization of communities.
- Applied knowledge of Java programming and software design principles to complete the project.

PolyCalc 2.0

- Worked with a team to design and program a polynomial calculator using the Processing language.
- Performs a variety of operations with polynomials, including a full visual graph and the properties of the functions.
- Designed a GUI to allow user interaction with the application.

WORK EXPERIENCE

Tim Hortons, Waterloo, ON — *Team Member*

JUNE 2021 - AUGUST 2022

- Communicated with customers and coordinated with team members to fulfill food orders and to ensure timely preparation and delivery of orders.

PEAK Education, Waterloo, ON — *Mathematics Tutor*

JANUARY 2021 - JULY 2021

- Created lesson plans and materials to help students understand complex concepts. Adapted teaching style to fit the needs and learning styles of individual students.

VOLUNTEER EXPERIENCE

Museum of Ontario Archaeology, London, ON — Camp *Counselor*

JUNE 2019 - AUGUST 2019

- Worked with coworkers to lead and design activities for kids.

EXPERTISE

-Proficient in Python, Java, HTML, CSS

-Highly experienced with Microsoft Word, Excel, and PowerPoint

-Strong problem-solving and analytical skills

-Solid collaborative skills

-Ability to work under pressure and self-motivated

-Punctual and detail-oriented

EDUCATION

University of Waterloo, Waterloo, ON — *Honours Bachelors in Mathematics*

SEPT 2022 - APRIL 2027 (Expected)

Laurel Heights Secondary School, Waterloo, ON — *OSSD*

SEPT 2020 - JUNE 2022

AWARDS & ACHIEVEMENTS

Louise Trapp Mathematics Scholarship by University of Waterloo

President's Scholarship of Distinction by University of Waterloo

Distinction in Euclid 2022 by CEMC

TVRA Badminton Gold Medal by TVDSB

LANGUAGES

English, Korean

REFERENCES

Available on request.