

SIYAR URYA

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UNIVERSITY OF WATERLOO

BSc in Honours Co-operative Physics

September 2019 - April 2024

SKILLS

Languages/Tools: Python, SQL, LabVIEW, HTML, SolidWorks, C, and DrRacket

EXPERIENCE

University of Waterloo

Instructional Support Assistant

Waterloo, ON

September 2022 - December 2022

- Provided the primary student contact related to course content, assignments, including guidance, feedback and marking.
- Provided consulting hours such as office hours and other one on one support session with students
- Monitored course discussion groups through LEARN and Microsoft Teams, helped to maintain the course website, and assisted with the development of course content

University of Waterloo

Course and Technical Support Assistant

Waterloo, ON

September 2021 - December 2021

- Supported instructors in delivering course learning outcomes by tracking the quality of learning opportunities in the course
- Researched, developed, and transformed academic content to suit course delivery methods
- Provided technical support for in-person classes being streamed or recorded

PROJECTS

KenKen Solver

<https://github.com/Siyar1/KenKenSolver>

Built a program using Python that solves a KenKen problem using Object Oriented and Imperative programming tools

Cannon Simulator

<https://github.com/Siyar1/Cannon-Simulator>

Developed a 2D graphical physics simulation that displays the motion of a projection using the PyGame module for the event loops, graphical interface, and collision detection

KeyCap Design

<https://imgur.com/gallery/6esGSCw>

Created a custom 3D keycap CAD design using SolidWorks based off the RTX 3070 graphics card

RELEVANT COURSES

CS 234

Top-down design of data structures. Using representation-independent data types. Introduction to commonly used data types, including lists, sets, mappings, and trees. Selection of data representation

CS 338

A user-oriented approach to the management of large collections of data. Methods used for the storage, selection, and presentation of data. Common database management systems.

Phys 360A

Conducted four different experiments with the help of a lab partner. Studied different gasses using a mass spectrometer gas analyzer, examined a variety of objects using an atomic force microscope, analyzed electrical waves and pulses in cables by studying impedance, and finally explored quantization through the Franck-Hertz experiment.