

# Induwara Kandapahala

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Engineering  
Co-op Program

## Academic & Co-op Status

### BSc Computer Engineering (Software)

University of Alberta, Edmonton, Alberta  
Class of 2026

First Year GPA: 3.45/4.00

Completed Academic Terms: 3/8

Completed Co-op Work Terms 0/5

Length of Next Work: 4 months

## Computer Skills

### Introductory Level

- HTML | CSS | JavaScript | SQLite

### Intermediate Level

- Python | C++
- Linux | Git
- Data Structures | OO Concepts | Graphing Algorithms
- ARM Assembly Language

## Awards and Scholarships

- International Student Scholarship
- Duke of Edinburgh Gold Award

## Project Experience

### Pathfinding Visualization- Personal | Dec 2022 - Present

Python, Tkinter

- Developed an interactive pathfinding visualization tool in Python using Tkinter, presenting the behavior of DFS, BFS, Dijkstra, and A\* algorithms in real-time.
- Implemented a user-friendly GUI for custom grid scenarios, algorithm selection, and visualization control, with the ability to save and load configurations.
- Demonstrated proficiency in programming, algorithm design, and UI development through comprehensive documentation, code comments, and an informative GitHub README.

### Portfolio Project- Personal | Aug 2022 - Aug 2022

HTML, CSS, JavaScript

- Constructed a webpage around CSS flexbox, with the help of JavaScript to create smooth animations.
- Learnt and applied new technologies by building a website with CSS, HTML, and JavaScript in under 3 months.
- Designed a visually appealing and user-friendly portfolio website through CSS, HTML, and JavaScript, showcasing attention to detail and problem-solving skills.

### Autonomous Arduino Vehicle- Personal | Apr 2021 - Aug 2021

Arduino, C++

- Designed and built an autonomous robot from scratch, incorporating an Arduino, GPS module, compass, and ultrasonic sensors to successfully navigate a predetermined course.
- Demonstrated determination and technical skills by tackling the challenge of learning C++ and operating an Arduino to build an autonomous robot.
- Created a functional and reliable autonomous robot using an Arduino, GPS module, compass, and ultrasonic sensors, showcasing resourcefulness and innovative problem-solving.

## Relevant Experience

### CS50 Online Course- Harvard University, Online

May 2022 - Aug 2022

- Developed an understanding of thinking algorithmically and solving problems efficiently through C, Python, SQL, JavaScript, CSS and HTML.
- Applied concepts of abstraction, data structures, encapsulation and resource management throughout 10 projects.
- Built and constructed a portfolio website for final projects using HTML, CSS and Javascript.

## Community Involvement

### Residence Representative- University of Alberta, Edmonton

Oct 2021 - Apr 2022

- Collaborated with senior management to improve the quality of experience for 300 residents by actively providing feedback and implementing changes.
- Reduced the number of complaints to 0 by distributing monthly complaint forms and leveraging the feedback to identify and address issues.
- Displayed creativity and organisation skills by planning and hosting successful events for a community of 300 students, including a movie night and a games night.

### Deputy Head Boy- The British School of Kuwait, Kuwait

Sep 2020 - Jul 2021

- Led a team of 24 students to market and open over 7 extracurricular activities, resulting in one club attracting over 160 participants. Showcased strong leadership skills and ability to manage a team effectively.
- Displayed adaptability and leadership as deputy head boy by successfully transitioning the extra-curricular system to an online format, accommodating 1500 students during the pandemic.
- Served as a bridge between management and students as deputy head boy, collaborating with both sides to address concerns and find mutually beneficial solutions. Exhibited strategic thinking and diplomatic skills by compromising and finding creative ways to meet the recommendations of both parties.