

# Ritvik Das

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**Engineering  
Co-op Program**

## ACADEMIC AND CO-OP STATUS

### Software Engineering Co-op, BSc, University of Alberta

Cumulative Grade Point Average  
Completed Academic Terms  
Completed Co-op Work Terms  
Available starting January 2025

Class of 2027  
3.0/4.0  
4/8  
0/5  
8 months

## EXPERIENCE

### Software Engineering Intern

May 2023 - Sep 2023

CANEIL, Edmonton, AB

- Revitalized company's online presence by presenting a more visually appealing and client-friendly interface, through use of WordPress and Elementor, as well as custom HTML and CSS.
- Created a Python script with a GUI operating on a Raspberry Pi using RFID tags to scan and track employee's attendance.
- Established a MySQL database to store employee name, status, and time of entry.
- Developed a Python program to efficiently manage and monitor non-chargeable employee hours by automating compilation of timesheet data into a consolidated Excel spreadsheet.
- Demonstrated versatility by performing hands-on mechanical maintenance on company trucks, contributing to smooth operation of organization's fleet.

## EXTRACURRICULAR ACTIVITIES

Backend Engineer- OpenWorld, May 2024 - Present

- Developed a Two Factor Authentication service using C++ to verify phone numbers for the OpenWorld application.
- Performed thorough testing for the 2FA system, through GMock and Google Test.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, SQL, Java, HTML/CSS, JavaScript, MATLAB

**Frameworks and Tools:** GitHub, Tkinter, CTkinter, WordPress, Bootstrap, Flask, MySQL, OpenPyxl, MSOffice

**Libraries:** Pandas, NumPy, OpenPyxl Matplotlib

## PROJECTS

### RoomInventory

Feb 2024 - Present

Python, PyTorch, MATLAB

- Utilized MATLAB to preprocess images of household objects.
- Trained PyTorch model to recognize different objects, then classify each into different categories.

### FitnessTracker

Aug 2023 - Present

Python, Flask, Bootstrap

- Leveraged Flask and Python to design a web interface for individuals to track workout progress over time.
- Applied SQL to manage and store user inputted data.