

# Heet Kothari

[linkedin.com/in/heetkothari/](https://www.linkedin.com/in/heetkothari/) | [github.com/hkothari1](https://github.com/hkothari1) | [hkothari@ualberta.ca](mailto:hkothari@ualberta.ca)

## Education and Co-op Status

---

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

Class of 2025

- **Cumulative Grade Point Average:** 3.6/4.0
- **Relevant Courses:** Software Requirements, Software Testing and Maintenance Engineering, Introduction to File and Database Management, Object-Oriented Software Design, Data Structures and Algorithms

## Technical Skills

---

**Programming Languages:** C++, Python, JavaScript, Java, Golang, SQL

**Tools/Frameworks:** Git, MS Office, HTML, CSS, Linux, React, Flask, MySQL

## Work Experience

---

### Full Stack Developer Co-op | 48Hour Discovery | Edmonton, AB

May 2023 – Aug 2023

- Designed and implemented MySQL triggers to automatically maintain hierarchical data relationships between two tables, capturing the lineage of DNA samples sequenced over multiple rounds
- Developed interactive UI components in JavaScript, including buttons and sliders, to dynamically adjust bar plot elements, enhancing user experience and data visualization
- Conducted in-depth navigation and debugging of Python and Flask codebase, successfully identifying and addressing root causes of critical software bugs

### Software Developer Co-op | Government of Canada | Ottawa, ON

Jan 2023 - Apr 2023

- Performed backend software development using Golang and a Linux environment, resulting in improved productivity of all telecommunication teams in the department
- Implemented Golang code which allows for real-time backup of crucial csv files
- Developed a Golang script that performed CSV data parsing to ensure real-time data accuracy
- Demonstrated familiarization with telecom terminology through analyzing base station and access point/Wifi router user manuals and extracting power consumption values

### Spectrum/Telecom Engineering Co-op | Government of Canada | Ottawa, ON

May 2022 - Aug 2022

- Developed Python code in a Linux environment for the Automated Frequency Coordination (AFC) Evaluation Python Tool
- Utilized VBA to identify erroneous Excel data fields in the 6 GHz data extract
- Helped address consultation of technical documents from stakeholders such as Cisco, Microsoft, and Google

## Project Experience

---

### Personal Website | HTML, CSS, React ([Website](#)) ([GitHub Repo](#))

Dec 2023

- Designed and implemented a personal portfolio website showcasing a wide range of professional experiences, personal projects, and diverse interests
- Crafted an appealing, user-centric interface leveraging React skills and ensuring a seamless user experience

### Music Player | HTML, CSS, JavaScript ([GitHub Repo](#))

June 2022 – July 2022

- Implemented play/pause, shuffle, repeat, loop, play next, play previous, and progress bar functionality
- Developed an interactive user interface using HTML, CSS, and JavaScript

### Navigation System | C++

Mar 2022

- Created a weighted directed graph of Edmonton coordinates using Edmonton map data
- Implemented breadth-first search and Dijkstra's algorithm to compute the shortest path between two points
- Added functions enabling the C++ server program to communicate with the plotter program using named pipes