Heet Kothari

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Education and Co-op Status

University of Alberta Software Engineering, BSc Co-op   Class of 2025
Availability starting May 2024   4 or 8 months
Cumulative Grade Point Average   3.6/4.0

Technical Skills

Programming Languages: C++, Python, JavaScript, Java, Golang, MATLAB, Assembly, PostgreSQL, MySQL
Tools/Frameworks: Git, JUnit, MS Office, HTML, CSS, Arduino, Linux, React, Flask

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 extensive Flask codebase, successfully identifying and addressing root causes of critical software bugs

Software Developer Co-op | Government of Canada | Edmonton, AB   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 and informs admins about any changes
- 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 | Edmonton, AB   May 2022 - Aug 2022
- Developed Python code in a Linux environment for the Automated Frequency Coordination (AFC) Evaluation Python Tool and designed a flowchart using Microsoft Visio for the 3000 lines of code in the Python Tool codebase
- 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

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

CMPUT 275 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