

Heet Kothari

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Education and Co-op Status

University of Alberta Software Engineering, BSc Co-op

Class of 2025

- **Cumulative Grade Point Average:** 3.4/4.0
- **Relevant Courses:** Software Requirements Engineering, Software Testing, Introduction to File and Database Management, Object-Oriented Software Design, Data Structures and Algorithms, Operating System Concepts

Technical Skills

Programming Languages: C++, Python, C#, JavaScript, TypeScript, Java, Golang, SQL

Tools/Frameworks: Git, HTML, CSS, Angular, React, Flask, MySQL, MSSQL Server, .NET, Azure DevOps Server

Work Experience

Full Stack Developer Intern | PCL Construction | Edmonton, AB

May 2024 - Dec 2024

- Created an employee management web application using the MVCS design pattern and REST API architecture, leveraging C#, .NET, and Entity Framework for backend development, Angular and TypeScript for frontend development, and MSSQL Server for database management
- Developed and integrated advanced form field components, including checklist and signature fields, into a dynamic form builder web application, using C#, .NET, Entity Framework, Angular, TypeScript, HTML, and SCSS
- Enhanced reliability and performance of the company's largest in-house construction management web application by resolving software bugs while using Agile practices and Azure DevOps for code management

Full Stack Developer Intern | 48Hour Discovery | Edmonton, AB

May 2023 – Aug 2023

- Enabled accurate tracking and analysis of DNA sample evolution by designing and implementing MySQL triggers that maintain hierarchical data relationships between database tables
- Enhanced user experience and data visualization within the company's in-house web application by developing interactive UI components in JavaScript that dynamically adjust bar plot elements
- Successfully identified and addressed root causes of critical software bugs by performing thorough navigation and debugging of the Flask backend

Software Developer Intern | Government of Canada | Ottawa, ON

Jan 2023 - Apr 2023

- Improved productivity of all telecommunication teams in the department by performing backend software development tasks using Go and a Linux environment
- Enabled real-time backup and secure storage of critical CSV files by implementing algorithms in Go
- Enhanced data accuracy by developing a Go script that performs CSV data processing and parsing

Spectrum/Telecom Engineering Intern | Government of Canada | Ottawa, ON

May 2022 - Aug 2022

- Optimized spectrum management and allocation by developing Python code for an in-house software application that automates and evaluates the coordination of wireless frequency usage
- Helped address consultation of technical documents from stakeholders including Cisco, Microsoft, and Google

Project Experience

Inventory Management Android App | Android Studio, Java, XML, Firebase, JUnit ([GitHub Repo](#)) Sep 2023 – Dec 2023

- Collaborated in a team of six using Agile practices to develop an inventory management application that performs CRUD operations such as adding/deleting/updating items and filtering/sorting items
- Designed a detailed UML class diagram and performed extensive UI prototyping using Figma
- Developed backend code in Java and frontend features in XML, leveraging Firebase for data management
- Implemented OOP principles and performed extensive unit testing of the application using JUnit