NIHARIKA RAMIREDDY

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Objective

Dedicated and adaptable Bachelor of Computer Science student with strong customer service, teamwork, and organizational skills. Proven ability to deliver exceptional customer service, resolve inquiries, and manage high-pressure situations in fast-paced environments. Seeking to contribute to Carleton University's Department of Recreation and Athletics by providing outstanding customer support, ensuring facility safety, and enhancing the overall client experience.

EDUCATION

Bachelor of Computer Science (BSC) Carleton University   April, 2026

Relevant Courses: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Database Systems, Software Engineering, Web Development, Computer Networks

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, C++, C, SQL

Web Technologies: HTML, CSS, Node.js

Frameworks/Tools: Git hub, Qt Framework

Testing: Unit Testing, Integration Testing, Test-Driven Development (TDD), Test Studio (familiar)

Concepts: Object-Oriented Design, Design Patterns, Agile Development, Secure Software Principles

Operating Systems: Linux, macOS, Windows

PROJECTS

Tandem t:slim Insulin Pump Simulator   Mar 2025

Developed a medical device simulator in C++ using Qt Framework. Implemented core features like insulin delivery, user profiles, and bolus calculator. Focused on clean OOP design and performed unit and scenario testing.

Ravens Elevator System   Jan 2025

Simulated a multi-elevator scheduling system in C++ and Qt. Optimized request handling to reduce average wait time by 20%. Used modular design and tested for performance and reliability.

File Management System   Dec 2024

Created a check-in/check-out file manager in C++ with custom date handling and encapsulated class structure. Designed for easy data retrieval and system organization.

Real-time Chat Application   Apr 2024

Developed using Node.js and Socket.io with JavaScript. Implemented chat rooms, typing indicators, and real-time updates.

Algorithm Optimization (COMP2402)   Sept 2024

Designed an efficient Java solution to process large text inputs, ensuring no line was a prefix of another. Improved speed using optimized data structures.

Volunteer Experience

March Break Camp Volunteer, Carleton University, Ottawa, ON   March 2025

Assisted in organizing and supervising recreational activities for children, ensuring a safe and enjoyable experience. Provided support to camp staff, including setting up equipment, managing registrations, and addressing parent inquiries. Demonstrated strong interpersonal skills and the ability to work effectively in a team-oriented environment.

Note-Taker – COMP 2804, Carleton University   January 2025

Volunteered to provide detailed and accurate notes for classmates, improving access to course content. Maintained well-organized, clear, and timely notes throughout the term to support peers with accessibility needs. Demonstrated responsibility, attention to detail, and strong understanding of course material in probability and statistics.