

# Mohamad Refaai

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## EDUCATION

### Simon Fraser University

Burnaby, BC, Canada

*Bachelor of Science in Computer Science*

*Expected Graduation Date: Dec 2027*

Relevant Coursework: Discrete Mathematics, Linear Algebra, Data Structures & Algorithms

Extracurriculars: Coding Mentor, PC System Architect, SAT Course Management, Football Athlete

## EXPERIENCE

### Software Developer Intern

May 2024 – August 2024

*Al-Taknia for Telecommunications*

- Refactored a 20,000+ line codebase to adopt object-oriented programming principles using Python, Java, and C++, reducing code duplication by 35% and enhancing system modularity.
- Enhanced test coverage by 40% through manual, unit, and integration testing, leading to a 20% decrease in reported bugs during production.
- Implemented HTTP requests for CRUD operations within the company's RESTful API, increasing API response efficiency by 30% and reducing data retrieval time by 15%.
- Developed automation scripts using Python to streamline repetitive tasks, boosting developer productivity by 25% and reducing manual work hours by 10 hours per week.

### Coordinator

Oct 2024 – Present

*SFU Surge Hackathon*

- Assisted in organizing and facilitating the event to ensure a smooth experience for participants.
- Provided support to teams, answered questions, and helped troubleshoot any issues during the hackathon.
- Engaged with participants to create a positive and collaborative environment, promoting problem-solving and creativity.

### Mentor and Volunteer

Oct 2024

*Fall Hack (SFU)*

- Guided participants through the hackathon, offering technical support and advice on project development.
- Provided mentorship to teams, assisting with idea brainstorming, troubleshooting issues, and refining solutions.
- Collaborated in organizing and coordinating the event, ensuring an engaging and productive experience for all participants.

### Leader

Sep 2024

*Computer Science Student Society (CSSS)*

- Volunteered as a leader, guiding new computer science students (Froshies) through various activities.
- Encouraged participation in events to help them connect and integrate into the computer science community.

### Activity Organizer

Sep 2023 – Dec 2023

*Residence Floor CA*

- Actively supported my floor CA by organizing activities and engaging with residents to answer their questions about university life.
- Helped create a welcoming and informed community through proactive engagement.

## PROJECTS

### Personal Website Portfolio | *JavaScript*

- Developed & deployed a web application using React.js to showcase my skills and projects in a responsive user interface.
- Incorporated reusability and component modularity using Higher Order Components to enhance flexibility.

### Robot Simulation Project | *C*

- Created a dynamic simulation of robots in a grid environment, showcasing dynamic memory allocation and modular design.
- Implemented interactive movement, color-based direction changes, and efficient memory management.
- Enhanced code maintainability through structured design and extensive documentation.

### Dynamic StringList Class with Undo Functionality | *C++*

- Designed and implemented a dynamic StringList class to manage strings with a robust undo feature for enhanced user experience.
- Developed functionalities for various operations, including insert, remove, set, and assignment operator, supporting seamless state management through an undo stack.
- Emphasized efficient memory management and thorough testing to ensure functionality and compliance with project requirements.
- Facilitated user interaction through clear methods for string manipulation and command logging for effective debugging.

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript, C, C++, HTML

**Technologies:** Git, MATLAB, NumPy, Pandas, MySQL, Linux

**Certifications:** Machine Learning with Python (IBM), Introduction to Artificial Intelligence (IBM), Crash Course on Python (Google), Fundamentals of Robotics (Global Academy of Science and Technology).

**Transferable Skills:** Time Management, Verbal & Written Communication, Multi-Discipline Team Collaboration, System Design, Product Reviews, Critical Thinking, and Problem Solving, Debugging.

**Languages:** Proficiency in multiple languages including Russian and Arabic.