

# Khizar Malik

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## EDUCATION

### Carleton University

2026 (Expected)

*Computer Science: Artificial Intelligence and AI Stream*

*Ottawa*

- **Relevant Courses:** Data Structures and Algorithms, Software Engineering, Object Oriented Software Engineering, Discrete Structures I/II, Fundamentals of Web Applications

## TECHNICAL SKILLS

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

**Technologies:** Qt Framework, React, Node.js, OpenCV, REST APIs

**Tools & Practices:** Git, Design Patterns, SOLID Principles, Agile/Scrum, GDB, Valgrind

## PROJECTS

### LeetCode-to-GitHub Sync Extension

- Architected chrome browser extension integrating LeetCode with GitHub using REST API and TypeScript, automating code portfolio creation and enabling automatic code uploads upon successful submissions
- Built responsive UI with **React** and **Tailwind CSS**, creating an intuitive interface for developers to configure repository and sync settings

### Elevator Control System

- Led biweekly agile sprints to design and implement State and Command patterns for elevator operations, delivering a responsive GUI using Qt's signal/slot architecture and Observer pattern for real-time updates
- Utilized **Kanban board** to track and integrate safety features using Strategy pattern, ensuring robust error handling and failsafe mechanisms through iterative testing and continuous integration

### ML-Based Stock Trading System

- Engineered a machine learning pipeline using **scikit-learn** and **yfinance** to predict stock price movements with 95% accuracy, implementing feature engineering techniques for lag-based predictors and automated trading signals
- Developed a backtesting framework with train-test validation to evaluate trading strategy performance through optimized trade timing and automated buy/sell signals

### thirdspace — Internal Developer

- Engineered a secure facial recognition system using **Python** and **OpenCV**, implementing advanced computer vision algorithms for ID verification that reduced user authentication time by **60%** while maintaining **95%** accuracy across diverse lighting conditions
- Developed a full-stack debugging interface using React and **Supabase**, creating real-time connection monitoring tools that enabled the team to identify and resolve user connectivity issues through visual data representation

## EXPERIENCE

### Client Service Representative

Aug 2024 – Present

*Carleton Residence Services*

*Ottawa, ON*

- Leveraged **EQ** to stay calm and composed during challenging interactions, helping to de-escalate situations and provide clear solutions to 500+ distressed students
- Used **quick thinking** to efficiently assess and prioritize student needs, directing them to the appropriate departments, enhancing the move-in experience for all students
- **Collaborated** with 5+ team members and coordinated with departments to resolve complex issues, showcasing my ability to work in a team and provide personalized solutions to student problems

## AWARDS AND CERTIFICATIONS

### Award of Academic Excellence for International Students

Sep 2022 - Apr 2023

*Batch of 2022*

*Carleton University*

- Got selected for the award, a prestigious honor bestowed annually to only 3 individuals out of 1000+ of applicants