

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**, 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

- Designed and implemented State and Command patterns to manage elevator operations, creating a scalable system for handling concurrent passenger requests and floor operations
- Developed a responsive GUI using Qt's signal/slot architecture, implementing the Observer pattern for real-time updates of elevator states and passenger interactions
- Integrated safety features using Strategy pattern for different emergency scenarios, ensuring robust error handling and failsafe mechanisms

ML-Based Stock Trading System

- Engineered a machine learning pipeline using **scikit-learn** and **yfinance** to predict stock price movements, implementing feature engineering techniques for lag-based predictors and automated trading signals
- Developed a backtesting framework with train-test validation, achieving consistent returns above market 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