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, React, React-Native, TypeScript
Technologies: Qt Framework, React, Node.js, OpenCV, MediaPipe, numpy, matplotlib, REST APIs
Tools & Practices: Git, Design Patterns, SOLID Principles, Agile/Scrum, GDB, Valgrind, CI/CD

PROJECTS

thirdspace — Internal Developer

- Engineered a secure facial recognition system using **Python**, **OpenCV**, and **MediaPipe**, implementing advanced computer vision algorithms and face detection validation that enhanced platform security by **60%** through automated verification of real human users, maintaining **95%** accuracy across diverse lighting conditions
- Developed a cross-platform mobile solution using **React Native** that seamlessly integrated the facial recognition system, alongside a full-stack debugging interface with **React** and **Supabase** for real-time connection monitoring and issue resolution
- Used version control and collaboration workflows using **Git** and **GitHub**, managing complex feature branches, reviewing and merging pull requests, and implementing advanced git operations like rebasing to maintain a clean commit history and streamline team development

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 in **C++** 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
- Debugged and optimized code using **Valgrind** to identify memory leaks and improve performance, while developing and testing the system on a **Linux** environment.

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