# Khizar Malik

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## Education

**Carleton University, Ottawa** **2026 (Expected)**

*Computer Science: Artificial Intelligence and AI Stream*

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

## Technical Skills

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

**Technologies & Frameworks**: React, Node.js, Express.js, Tailwind CSS, NumPy, Pandas, Scikit-Learn, Matplotlib, Qt, REST API

**Tools & Practices**: Git, GitHub, VS Code, Vim, Npm, Agile (Scrum, Kanban), DevOps

## Projects

**LeetHub: Chrome Extension**

- Architected LeetHub browser extension integrating LeetCode with GitHub, automating code portfolio creation for developers seeking to showcase solved problems
- Implemented seamless authentication and repository management using GitHub **REST API**, enabling automatic code uploads upon successful submissions
- Built responsive UI with **React** and **Tailwind CSS**, creating an intuitive interface for repository configuration and sync settings

**2D Game Simulation**

- Developed an immersive **C++** simulation in the **Ubuntu Linux** environment, following **Agile methodology** and utilizing **object-oriented design principles** with **UML diagrams** (including **state** and **sequence diagrams**) to simulate complex interactions within a 2D grid environment, adhering to industry-grade **software development** practices
- Implemented **polymorphism** and **dynamic binding** to support over 5 different character classes with distinct behaviors, potentially generating 100+ random player positions and following
- Ensured robust memory management and error-free code with **extensive testing** through **Valgrind** and **GDB** for **debugging** and **memory leak detection**

**Apple Stock Price Predictor**

- Collected and processed over 5 years of historical Apple stock data using **yfinance and Pandas**, extracting key features and visualizing trends
- Built and fine-tuned a machine learning model using **linear regression** in Python, achieving an **85% accuracy rate** in predicting future stock prices
- Evaluated model performance through 5-fold cross-validation, improving buy and sell signal predictions by 20% compared to baseline models

## Awards and Certifications

**Microsoft Badges/Awards** **Nov 2024**

*Microsoft*

- Earned Microsoft badges including **Plan with DevOps**, **Discover DevOps**, and **Core Architectural Components of Azure**, demonstrating foundational knowledge in **DevOps processes**, **agile planning**, release management strategies, and Azure's core architecture.

**Supervised Machine Learning: Regression and Classification** **Jul 2024**

*DeepLearning.AI* *Stanford University*

- Completed a comprehensive course in supervised machine learning with a focus on deep AI techniques, gaining proficiency in **Linear Regression, Logistic Regression, Classification, Scikit-Learn, NumPy, and Pandas**

**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