

UMAR KHAN

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EDUCATION

Queen's University

Kingston, ON

Bachelor of Computer Science Honours (BCompH)

Expected Graduation: April 2026

Computer Science, Mathematics, and Analytics Specialization (COMA-I-BCH)

Relevant Courses: Computer Architecture, Data Structures, Software Specifications, Rings & Fields, Calculus III
Dean's Honours List Member - **4.1 Cumulative GPA**

TECHNICAL SKILLS

- Proficient in Python, Java, and C++, with basic knowledge of Javascript and HTML5
- Skilled in using Python (Pandas, NumPy) for data manipulation and R for statistical analysis.
- Extensive knowledge of operating systems and internals, with strong object-oriented programming skills
- Mathematical knowledge applied to optimize algorithms and enhance cryptographic solutions in projects

PROJECTS

Wall Street Guess Game

Language: HTML5/CSS

- Users predict the 'daily stock's' performance before the market closes, acting as a confidence meter for companies
- Created and trained an AI component that analyzes previous stock data to forecast the near-future stock behaviour
- Used the finnhub.io API to import real time market data and aggregate it into a visual game website
- Coded an account creation and login page, a leaderboard, a countdown clock, AI prediction page using CSS

Bad Ice Cream Video Game Adaptation

Language: Java

- Worked with multiple classes and graphics to develop a GUI replicating the popular kids' game of the same name
- Worked with toolkit, reading from a file, refresh rate, and threads to create characters and controlled movement
- Created and designed menu, instructions, and game pages with button controls and original character designs

President Card Game Adaptation

Language: Java

- Worked with enums, array lists, and methods to develop CPU game logic to compete against the user
- Considered game cases and intensity to create a seamless experience for the user from beginning to end

WORK EXPERIENCE

City of Markham

Markham, ON

Summer Camp Supervisor

June 2022 - Sept 2023

- Managed a team of 5-8 counsellors and volunteers by delegating tasks and setting expectations
- Planned a 5-day STEAM camp week and budgeted purchase of necessary materials and technology
- Managed evolving priorities and quickly adapted to changes in camp programming given circumstances
- Communicated concerns to higher-ups and de-escalated conflicts completing detailed reports when necessary

Law Office of Salim Momin

Toronto, ON

Cooperative Education Placement

Sept 2020 - Jan 2021

- Performed office tasks such as photocopying, proof-reading, and answering phones
- Reviewed legal documents and communicated questions and concerns with supervisors in debrief meetings
- Handled confidential information and organized documents in client files