

# I'm Subhana Khan

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Proactive and skilled Computer Scientist currently pursuing graduate studies in AI at the University of Alberta. Experienced in full-stack development, QA, and Agile, with a strong track record of delivering high-impact projects. Passionate about building intelligent, efficient, and scalable solutions.

## Working Experience

- Internship at NETSOL Technologies

## Skills

- Proficiency in programming languages like Python, C, SQL, and Unity
- Strong analytical and problem-solving skills with a high level of attention to detail and accuracy
- Skill in identifying and resolving bugs and writing effective unit tests to ensure software quality.
- Quick to learn new technologies on your own and aren't intimidated by new technologies.
- Ability to work with all professional levels; a team player who can also work independently.
- Knowledge of Microsoft products such as Office, Teams, and SharePoint
- Project management
- Enrolled as a full-time undergraduate student in the Faculty of Science – Majoring in Computing Science and Minor in Business - and registered in a formal co-op/internship program (SIP – Science Internship Program)

## Projects

### AI-Powered Pac-Man Game

*Python, Unity, A\*, NavMesh, Spatial Hashing, Grid*

- Developed a Pac-Man game with grid-based movement and real-time pathfinding in Unity
- Implemented A\* algorithm on a grid system for navigation
- Integrated NavMesh and spatial hashing to enhance AI responsiveness and performance
- Built interactive maze logic, collision handling, and game state management

### MongoDB-Based Amazon Review Analyzer

*Python, MongoDB, JSON*

- Developed a document-store system to ingest and query Amazon review data using MongoDB

- Built a batch JSON loader to handle large datasets and construct collections efficiently
- Implemented queries for top products, average ratings, reviewer activity, and review trends
- Added logic to flag suspicious reviews based on helpfulness ratio and high ratings
- Designed an interactive CLI for search, statistics, and analysis operations

### Enterprise Tweet Management System

*Python, SQLite, SQL, CLI*

- Built a command-line social media platform with user login, signup, and tweet feed
- Implemented tweet search by keyword or hashtag with pagination
- Enabled user search, follow/unfollow, and tweet statistics
- Managed favorites, retweets, replies, and tweet lists
- Used SQLite with a normalized schema and foreign key constraints

## Education

B.Sc. in Computer Science and Business Minor

University of Alberta

Expected Graduation Date:

2026 Relevant courses:

- Data organization and information processing; entity-relationship model; relational model; SQL
- Fundamentals of programming, problem-solving, troubleshooting, recursion, and key programming principles.
- Abstract Data Types (ADTs), algorithm design, analysis, and implementation of searching and sorting algorithms.
- C programming language, software engineering principles, and implementation of abstract data types.
- Profound understanding of the AI approaches employed in digital games.
- Advanced algorithm design and analysis with a focus on searching, sorting, and graph algorithms.
- Proficiency in Excel-based modeling, accounting management, stochastic models, and production planning.

## Awards And Scholarships

- Google Analytics Certification
- Rutherford scholarship

- Honors in grade 10, 11, 12