

# KHIZAR AQIL

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## EDUCATION

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### University of Toronto Mississauga

*HBSc in Applied Statistics, Minors: Mathematics and Geospatial Data Science*

Mississauga, ON

Sep. 2023 – Apr. 2027

### Nixor College

*A Levels (Cambridge International) — Mathematics, Economics, Accounting*

Karachi, Pakistan

Aug. 2021 – May 2023

## COURSEWORK EXPERIENCE

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### Recursive Algorithms and Data Structures

- Designed and implemented recursive solutions for linked lists and trees.
- Gained debugging experience and wrote unit tests to verify program correctness.
- Built custom ADTs using object-oriented programming in Python.

### Statistical Analysis and Data Interpretation

- Applied probability theory and statistical inference to analyze real-world datasets.
- Worked with discrete and continuous probability distributions.

### Mathematical Foundations for Computing

- Developed formal logic and proof-writing techniques (induction, contradiction).
- Solved linear algebra problems involving vector spaces, eigenvalues, and transformations.

## ACADEMIC ACHIEVEMENTS

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- Merit-Based Entrance Scholarship at UTM (First Year), CAD \$3000.
- Earned 9 A\*s/As in IGCSE O-Levels; awarded academic scholarship at Nixor College, Karachi.

## PROJECTS

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### Python Projects: Software System Design & Data Compression

- Built a mobile service company simulator in Python using key OOP principles.
- Implemented Huffman coding with binary trees for efficient text compression.
- Designed flexible class hierarchies and practiced modular program design with thorough unit testing and assertions.
- Utilized Python libraries including `unittest`, `collections`, and `typing` to improve reliability and code clarity.

### Aircraft Reliability Analysis — Excel, Power BI, Python

Sep. 2025 - Ongoing

- Analyzing 2022 Canadian domestic flight data to identify the most reliable aircraft models based on engine failures and hazardous occurrences.
- Cleaning and organizing large datasets in Microsoft Excel using filters, formulas, and pivot tables.
- Visualizing reliability metrics and incident trends across aircraft models through interactive Power BI dashboards.
- Applying data analysis and visualization techniques to evaluate aircraft safety performance in Canadian domestic operations.

## TECHNICAL SKILLS

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- **Languages:** Python, PowerBI, Excel, MySQL, SQLite, Sharepoint, R
- **IDEs:** PyCharm, VSCode, RStudio, MySQL Workbench, Git/GitHub
- **Libraries:** math, random, collections, typing, unittest, doctest, sys, os, matplotlib, numpy, pandas