

A guide to MIU Technical interview

The technical interview is intended to evaluate your Computer Science knowledge and the skills of using that knowledge in coding a solution to a given problem. The goal is to ensure you have the required level of skills to succeed in the MSCS program at Maharishi International University.

Below is a NON exclusive list of the Computer Science concepts that you should understand, use and be able to explain when writing code:

1. Basic OOP principles:
 - Interfaces, classes and objects – what they are and how they relate
 - Polymorphism, encapsulation and inheritance
 - Access level for class methods and properties – you should be able to create a class that exposes some methods, and then call those methods from another class.
2. Data structures
 - Lists, Stacks, Queues – be able to use and implement.
 - HashMap – understand how they work and how to use them.
3. Database systems and SQL queries – understand the basic SQL commands (SELECT, INSERT, UPDATE, DELETE) and be able to write simple queries using them.
4. You should also be able to explain any project and/or skill or experience listed in your resume.

Some examples of problems to solve:

- Reverse an array
- Find the minimum or maximum element in an array
- Write a method that raises a number to a power without using Math.pow() method
- Given a String and a character return how many times the given character is present in that string.

NOTE: the interview is done via Skype and you will need a camera and good internet connection in order to share your screen with the interviewer.