



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

Faculty of  
Computing

**SUBJECT: TECHNOLOGY AND INFORMATION SYSTEM**

**SUBJECT CODE: SECP 1513**

**TITLE: SKILLS IN UNIVERSITY AND INDUSTRY**



**Group Members: 1. Name: Nurulhanisa binti Mohd Ikhsan**

**Matric Number: A21EM0207**

**2. Name: Najihah Binti Azhan Khan**

**Matric Number: A24CS0144**

**3. Name: Seah Zhang Jian**

**Matric Number: A24CS0297**

**4. Name: Yaaswiny Abbiramavally Thinaharan**

**Matric Number: A24CS0213**

**5. Name: Husna Safiyyah binti Muhammad Farouk**

**Matric number: A24CS0083**

## **Introduction**

Learning skills and gaining experience is necessary for computer science students who want to thrive in the industry. This was explained by a speaker during a talk that was conducted on 17 December 2024, where he shared his personal experience and advice.

The speaker highlighted his experience during his first job as a programmer. There was a time when he had pushed the code into the system and it had caused a server issue located in Singapore to have a problem and the game to experience a down time. However, his colleagues and his chief executive officer were very supportive about it and he learnt a lot from that experience with more advice and lessons from them.

Moreover, the speaker also talked about some basic skills required for computer science and skills required by industry. The skills are divided into two: technical and management. For technical skills, one of the things he mentioned was programming language. However, he emphasised that it does not really matter which programming languages are learned, but rather, it is on the fundamentals and the logic of the programming that students should focus on honing such as the concept of object oriented programming (OOP), on how to use classes, objects and more. Once the students have a good grasp on the fundamentals, any programming language will not be a problem. Additionally, the skills to utilise version control such as Github and GitLab is also mentioned as an important skill. The skills to use development tools such as Visual Studio and VS Code, and the database structure are also crucial for computer science students. The students should acquire a deep understanding of the database structure which encompasses the tables, column, primary key, indexes, relationship, constants as the basics.

In conclusion, the speaker's story and advice shows the importance of learning technical and management skills for computer science students. By focusing on the basics and gaining the right skills, students can prepare themselves better for the challenges in the industry.

## **Reflection**

Nurulhanisa binti Mohd Ikhsan (A21EM0207)

From the talk, I gained a new perspective and insights of the pathway that I should be walking on, with the information shared by the speaker. I got to know the demands of the industry to hone my skills throughout my whole journey in UTM and keep on going to continuously develop myself. The key is that I have to keep on learning as much as I can and focus more on the fundamentals and basics.

Najihah binti Azhan Khan (A24CS0144)

From the talk, I learned the importance of improving my programming fundamentals, especially object-oriented programming (OOP) concepts like classes and objects. It reminded me to focus on logic

and problem-solving rather than specific programming languages, as mastering the basics makes learning any language easier. I also realized I need to get more comfortable with tools like Visual Studio and VS Code to be better prepared for the industry.

Seah Zhang Jian (A24CS0297)

The talk has given me the real picture of how the industry is working with the requirements and skills that are needed. The speaker shared his experience that resonates deeply in my mind, especially the idea that foundational knowledge is far more valuable than simply knowing a specific programming language. Through this talk, that really helps me prepare myself early so that I could meet the requirements and skills that the industries needed in the future.

Yaaswiny Abbiramavally Thinaharan (A24CS0213)

The talk gave me valuable insights and a better understanding of the path I should take as a computer science student. It emphasized the importance of mastering fundamentals, like object-oriented programming (OOP), understanding classes and objects, and focusing on logic and problem-solving rather than just specific programming languages. It also stressed the need to continually develop both technical and soft skills to meet industry demands. Overall, it was an inspiring and helpful session to prepare for what lies ahead.

Husna Safiyyah binti Muhammad Farouk (A24CS0083)

The talk opened my eyes to the broader perspective of what it means to thrive in the tech industry. I learned that while technical expertise is crucial, having a growth mindset and the ability to adapt to change are equally important. The speaker emphasized the importance of engaging in hands-on projects to build a solid portfolio and using challenges as opportunities to grow. Another key takeaway for me was the value of seeking mentorship and networking within the field to gain real-world insights. Overall, it was an eye-opening experience that encouraged me to take deliberate steps in shaping my career path.

## Reference

The University of Sheffield. (n.d.). *How to write in an academic style*. Retrieved from

<https://www.sheffield.ac.uk/study-skills/writing/academic/style>

Cisco Webex. (n.d.). *Meet virtually with Cisco Webex: Anytime, anywhere, on any device*.

<https://utm.webex.com/recordingservice/sites/utm/recording/495193b7b8d1499da9109e304e3f154a/playback>