



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FACULTY OF COMPUTING
UTM Johor Bahru

SECP 1513: Technology Information System

Semester 01, 2024/2025

ASSIGNMENT 3: ACADEMIC WRITING (INDUSTRY TALK 2)

TITLE : SKILLS IN UNIVERSITY AND INDUSTRY

PREPARED BY: TECHTICIANS



No.	Student Name	Matric No.
1.	Kavivarthan A/L Mannivanan	A24CS0093
2.	Muhammad Firdaus bin Md Lani	A24CS0132
3.	Lim Bei En	A24CS5080
4.	Phang Souh Xin	A24CS5051

DESCRIPTION OF SPEAKER EXPERIENCE

The first speaker, Mr Hakimi Iqmall, an IT officer in UTMDigital started his talk by sharing the journey of his life. He studied at SK Taman Universiti 1 and pursued secondary studies in MRSM Langkawi before studying in Universities Teknologi Malaysia (UTM). Before this, he had worked for Okakichi Sdn.Bhd., a Japanese game development company based in Iskandar Puteri, Johor [3]. The company has developed various computer games including the famous Street Fighter II and Onimusha. At the end of his talk, he pinpointed the necessary technical and management skills which industries are looking for when hiring new workers and sufficient to secure a spot in the job market.

The second speaker, Mr Nik Mohd Habibullah, the Chief Executive Officer (CEO) of Micro Semiconductor Sdn.Bhd. joined and delivered his talk virtually. He also started his talk by exposing his story on how he managed to purchase a company and became the CEO. His talk focused more towards the flow of job application, common mistakes done during job hunting and how to set up a company. He also mentioned that gaining adequate knowledge in AI and blockchain will help one to sustain in the IT market for the next 10 years.

Skill Required for Computer Science

Students that study in the computer science field are required to possess various skills in order to excel in the subject. For instance, prioritising understanding, logic, and fundamentals, students will be able to have the ability to be comfortable when learning a new coding language, as well as solving problems. Especially for Data Engineering students, having an apprehension regarding key concepts of basic databases, such as tables, primary key, foreign key, normalisation, etc. will help them go through the subjects easily without any problems. Additionally, to ensure efficiency when solving problems, students will need to have analytical and logical skills by getting used to algorithms and data structures.

Skill Required by Industry

The skills required by the industry can be categorized into technical and management skills, which are crucial for professional success. Technical skills such as strong coding and debugging abilities are important for identifying issues efficiently. Continuous learning is also important to stay updated with new and upcoming technologies and frameworks to ensure relevance in an evolving field. Having a proficiency in advanced development tools such as Visual Studio and VSCode is essential, alongside a solid understanding of database structures and normalization techniques to design an efficient system. Moreover, adaptability is a key asset to enable professionals to navigate through project requirements and technological advancements. Additionally, being familiar with system frameworks is also critical for developing maintainable software solutions [1].

Next, management skills allow fostering collaboration and productivity in professional environments. Problem-solving abilities are vital for pointing out unexpected challenges and optimizing performance. Effective communication skills give way for professionals to re ideas clearly, promoting collaboration across teams and departments. A comprehensive understanding of the Software Development Life Cycle (SDLC) methodologies and knowledge in testing and quality assurance, ensures the development of reliable systems. In addition, leadership and teamwork are crucial for building a cooperative and efficient team, while risk management skills help identify and remove potential challenges during project development. Lastly, being empathetic further enhances collaboration and adaptability, enabling professionals to thrive in dynamic environments [2].

REFLECTION

Kavi: Talks like this are beneficial for students in order to nurture and prepare themselves for the job market in the future as these talks are providing insights on skills needed and how to hunt for a job effectively.

Souh Xin: This talk has given me a more clear direction for achieving success in this field. I will focus on mastering my fundamentals, solving problems, and applying knowledge everywhere I can. I will also join clubs and events that will help me learn from professionals, and build strong networks, improving both technical and interpersonal skills for this field.

Bei En: This talk provided me with valuable insights into the skills necessary for a successful career in the technology industry. I plan to learn new technologies through classes and participate in tech competitions to improve my problem-solving skills and prepare for future challenges.

Firdaus: I learnt a lot from this talk, from the ways on how I am able to be a better student, to the ways on how to tackle problems regarding the subject, to the ways where I am going to be capable of cooperating with my groupmates well. I am sure that in the coming years, I will be successful in this field and strive in the surroundings as well.

REFERENCE

1. Indeed Editorial Team. (2024, September 11). 12 software developer skills to succeed. Retrieved from [\[https://www.indeed.com/career-advice/career-development/software-developer-skill\]](https://www.indeed.com/career-advice/career-development/software-developer-skill)
2. Nucamp. (2024, June 5). 12 essential skills for software development managers. Retrieved from [\[https://www.nucamp.co/blog/12-skills-for-software-development-manager\]](https://www.nucamp.co/blog/12-skills-for-software-development-manager)
3. OKAKICHI | Malaysia. (n.d.). OKAKICHI. Retrieved from [\[https://www.okakichi.my/\]](https://www.okakichi.my/)