FACULTY OF COMPUTING
UTM Johor Bahru

ASSIGNMENT 3: ACADEMIC WRITING

REPRESENTATIVE

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Subject	Technology and Information System (SECP1513)
Session	2024/2025 Semester 1
Task	ACADEMIC WRITING on INDUSTRIES TALK 2
Title	SKILLS IN UNIVERSITY AND INDUSTRY
GROUP MEMBERS	
1.	MUHAMMAD ANAS BIN HAMDAN (A24CS0275)
2.	EZZ EDDIN BIN MARWAN (A24CS5045)
3.	RAMI ABBAS MOHAMEDAHMED FADLELMULA (A24CS0320)

This talk was delivered by **Mohd Haqimi Iqmal** and **Nik Mohd Habibullah**. Mr. Haqimi completed his internship at ME-Tech Solution Sdn Bhd in 2017 and, after graduating, worked as a game programmer at Okakichi Sdn Bhd, where he developed the game *Kingdom Ran*. From 2019 to 2021, he worked at UTM Research Computing before joining UTMDigital in 2021, where he contributed as a project manager and system analyst on projects such as Payroll 2.0, the SSPA System, and the Integrity System. Meanwhile, Mr. Habibullah began his career producing a launching montage for UTM's Digital Library and later worked on similar projects for Aman Malaysia and developed the Catalog Thesis System during his internship at UTM Library. He then joined NI Solution, followed by Micro Semiconductor Sdn Bhd, and is currently with DatSINI in collaboration with UKM, where he developed the products *Get Me Hired* and *Dialysis Manager*.

In the fields of computer science and technology, success hinges on a comprehensive skill set that blends technical proficiency with management capabilities. Technical skills, such as programming language proficiency, familiarity with development tools, and expertise in database management, form the foundation of a software developer's role. Mastery of languages like Python, C++, and Java is essential for various applications, while tools such as Git for version control and IDEs like Visual Studio enhance productivity. Additionally, knowledge of debugging, security best practices, and data structure optimization is critical for creating efficient and secure software.

Equally important are the management skills that guide the development process. Effective problem-solving, communication, and a deep understanding of the Software Development Life Cycle (SDLC) are essential for ensuring that projects meet both technical and business requirements. Managers must determine the best approach for project execution, while also overseeing testing, quality assurance, and risk management to mitigate issues and ensure robust system performance.

Strong analytical and logical skills are crucial in both technical and managerial roles, particularly when optimizing algorithms or solving complex problems. Developers and managers alike must possess the ability to assess challenges critically, propose effective solutions, and make informed decisions that balance business needs with technical feasibility. These competencies are fundamental to success in software development, machine learning, and systems optimization.

Leadership and collaboration skills are also vital. A good leader fosters a cohesive team environment, facilitates communication between developers and stakeholders, and ensures alignment with project goals. Clear documentation and effective coordination are essential for maintaining project transparency and ensuring long-term success and maintainability.

Reflections

"From this talk, I learned many things that can be helpful for my future. It taught me a lot about steps to be a successful individual as a computer science student. There were many things that I did not even think about as a computer science student. In the next four years, I want to be a game programmer that master in programming language and have high problem-solving skills while having a good teamwork."

- Anas

"For me, the most important lesson I gained from the talk was the advice on job hunting, particularly the point on starting to do so as early as possible. It wasn't very intuitive at first, but I now realize it should be looked at as an opportunity amidst the ever-growing competition. In the next four years, I'll be working on sharpening all the skills mentioned in the talk, and use the job-hunting advice to my advantage."

- Rami

"*The talk made me realize that being a successful computer science student involves more than just mastering technical skills, such as knowing core programming languages like Python, JavaScript, or C++, as well as database design and hacking techniques. Soft skills, including communication, teamwork, leadership, and problem-solving, are also essential for success in this field. Therefore, I will focus more on developing these skills over the next four years while also maintaining my technical skills to remain relevant to the ever-changing trends and needs of the industry."*

-Ezz

References

1. H. Hakimi, *Sharing Session 17 December 2024: From Graphic Multimedia to Leading Projects*. Universiti Teknologi Malaysia, 2024.

2. N. M. H. N. M. Nizam, *Preparing for Entrepreneurship in IT: Essential Skills and Strategies for University Students*. 2024.

3. Encik Mohd Hakimi Iqmall, Encik Nik Mohd Habibullah, "Industrial Talk-20241217 0312-1", Webex, 17th December 2024. [Online], Available: https://utm.webex.com/recordingservice/sites/utm/recording/495193b7b8d1499da9109e304e3f154a/playback.