FACULTY OF COMPUTING
UTM Johor Bahru

Semester I 2024/2025

Technology and Information Systems
(SECP 1513)

Academic Writing on Industry Talk 2: Skills in University and Industry

Designing Success: From Graphic
Multimedia to Leading Projects

Preparing for Entrepreneurship in IT:
Essential Skills and Strategies for University
Students

Student(s) Name and ID:		
	(1) Eleanor Ting	A24CS0247
	(2) Norhaslin Binti Shari	A24CS0149
	(3) Afina Soleha Batrisyia	A24CS0034
	(4) Abdul Rasyid bin Abd Gani	A24CS0030
Lecturer:	Associate Professor Dr Azurah A Samah	

Date: _____1/1/2025_____

Talk 1: Designing Success: From Graphic Multimedia to Leading Projects

Speaker: Encik Mohd Hakimi Iqmall (Project Manager/System Analyst)

Work Experience

Year	Organization	Role	Key Contributions/Projects
2017	Tech ME-Tech Solution Sdn Bhd	Internship	Contributed to 3D modeling and graphics optimization for a ship simulator application.
2018-2019	Okakichi Sdn Bhd	Game Development Programmer	Focused on animation development for the game Kingdom Ran under a one-year contract.
2019-2021	UTM Research Computing	System Programmer	Worked on projects RADIS 4.0 and ICEys.
2021-Present	UTM Digital	Project Manager/System Analyst	Led projects including the Welfare Services System, Clinic Panel System, Kenaikan Gaji Tahunan (KGT), Payroll 2.0, SSPA System, and Integrity System.

Skills required for Computer Science and Industry

Mr. Hakimi emphasized that achieving success in the IT field requires a combination of a solid technical foundation and a comprehensive set of management skills. He highlighted several technical competencies crucial for professionals, including proficiency in multiple programming languages such as C++, Python, and Java, as well as expertise in version control systems like GitHub for collaborative development. Additionally, a deep understanding of database structures, security vulnerabilities, and system frameworks is essential for building scalable, efficient, and secure systems. Debugging techniques and an awareness of common security threats, such as SQL injection, Cross-Site Scripting (XSS), and Cross-Site Request Forgery (CSRF), are also important for maintaining system integrity. Mr. Hakimi stressed that strong analytical and logical skills, particularly in problem-solving and optimizing performance, are fundamental for success in IT. As individuals progress towards project management roles, he advised that gaining technical experience through roles like programmers is critical, as it offers insight into the software development lifecycle and allows for a better understanding of the technical challenges teams face. Furthermore, effective communication, leadership, and a clear understanding of various SDLC methodologies, such as Agile, Waterfall, and DevOps, are essential for managing projects and teams effectively. These skills enable project managers to align stakeholder expectations, mitigate risks, ensure quality assurance, and maintain project coherence. Mr. Hakimi emphasized the importance of continuous learning, particularly in mastering emerging technologies, to keep up with industry trends and meet client demands. By identifying their career interests and pushing beyond their comfort zones, individuals can foster personal growth, drive innovation, and adapt to the ever-changing IT landscape.

Talk 2: Preparing for Entrepreneurship in IT: Essential Skills and Strategies for University Students

Speaker: Encik Nik Mohd Habibullah Bin Nik Mohd Nizam (Chief Executive Officer (CEO) Micro Semiconductor Sdn.Bhd | System Analyst | Co-Founder getmehired.io & dialysismanager.io at GetMe Hired)

Background

Encik Nik Mohd Habibullah Bin Nik Mohd Nizam is a prominent figure in Malaysia's IT sector, known for his entrepreneurial ventures and contributions to system analysis. He founded Ni Solution, which later evolved into Micro Semiconductor Sdn Bhd (MSSB) in 2010. Under his leadership, MSSB expanded its services from IT and electronic consultation to include IT equipment, network security solutions, and machinery devices. He also co-founded GetMe Hired, a platform supporting fresh graduates in creating professional CVs, and Dialysis Manager, an integrated system enhancing haemodialysis center services.

Overview of GetMe Hired in Enhancing Employability and Future-Ready Skills

GetMe Hired, as presented by Mr. Nik Mohd Habibullah, is a comprehensive platform designed to empower job seekers by enhancing their employability. The platform offers a structured progression through self-assessment, resume building, interview preparation, and career advancement. It emphasizes the creation of Applicant Tracking System (ATS)-friendly resumes and the adoption of a strategic approach to job applications, thereby equipping individuals with the necessary tools to excel in highly competitive job markets. Central to Mr. Nik's guidance is the IRPA methodology—Identify, Research, Prepare, Apply—which serves as a structured framework for effective career navigation. The Identify phase involves self-assessment, allowing individuals to evaluate their strengths, weaknesses, career aspirations, and the skills required to achieve their goals. The Research phase guides job seekers in analyzing industry trends, job sustainability, financial stability, and workplace culture, ensuring alignment between personal goals and market demands. The Prepare phase focuses on crafting detailed, professional CVs that effectively showcase achievements and organizing materials in accessible formats to enhance readiness for applications. The final Apply phase emphasizes the importance of strategically submitting well-prepared applications through professional platforms, maximizing visibility and employment opportunities. In conclusion, success in IT and related fields requires a clear career vision, lifelong learning, and skill development. Mastery of role-specific competencies, combined with the strategic use of tools like Lucidchart for system modeling, Microsoft Project for project management, and Adobe Creative Suite for design, is essential for building a strong technical foundation. By integrating these tools with thoughtful planning and a proactive mindset, individuals can adapt to industry demands and achieve sustained professional growth.

Reflection: How you will successful in the computer science in next four year?

Group Member 1: Eleanor Ting

To ensure success in my Computer Science degree over the next four years, I will focus on building a strong foundation in programming, as emphasized by Mr. Hakimi. Acquiring proficiency in multiple programming languages, such as Python, Java, and C++, will help me develop solid problem-solving skills and deepen my understanding of logic and algorithms. Additionally, Mr. Nik's advice on creating a strong CV and utilizing the right tools for different computing positions is crucial. I will work on enhancing my resume with relevant projects and skills, while familiarizing myself with industry-standard tools and platforms for roles like system analyst, developer, or data scientist. By aligning my academic learning with industry expectations, continuously improving my technical abilities, and preparing strategically for future opportunities, I can navigate my degree and career trajectory with confidence.

Group Member 2: Afina Soleha Batrisyia

The industry talk I attended was a very informative and useful talk that gave me a lot of valuable information and insights. After the talk, there are many positives that I can take away from which will help me move forward towards my goals. I'm now fully aware that I need to improvise on my technical skills such as programming, analytical and logical skills. I also have to build my personality and character to be able to become a person who can confidently lead a team and also hone my soft skills. This helps me build a path that leads to a brighter future for me. I have to move out of my comfort zone and widen my general knowledge. One more thing is, I also have to involve myself in activities, competitions and also in courses that significantly contribute to my career. This way, I can expand my social network by meeting new people and gain valuable experiences. I also learned a valuable lesson of moving and learning at my own pace, rather than depending on others'. I just have to be confident in myself, believe that I am capable of anything I dream of.

Group Member 3: Norhaslin Binti Shari

From the talk, I gain a lot of knowledge in order to success in the field of computer science. Besides, this discussion provided me with insightful information and organized strategies for succeeding in this industry. Developing my technological skills is one of my plans for success in computer science in the upcoming year. To broaden my skill set, I need to improve my knowledge in languages like Python, Java, and C++, as well as other languages. Next, I will challenge myself to take on new tasks and participate in all competitions and events, in order to push myself beyond my comfort zone. In addition to learning lots of new things, I also be able to expand my connection with those around me. Next, I'll hone my analytical reasoning and problem-solving abilities so I can use them on each new project. Finally, in order to increase my knowledge and skills, I plan to attend numerous event and talk. By committing to these strategies, I am confident that I will become a multi-talented and adaptable professional, capable of thriving in any job I pursue.

Group Member 4: Abdul Rasyid bin Abd Gani

The industry talk was highly insightful, emphasizing the importance of continuous growth in both technical and soft skills to succeed in today's competitive environment. I realized the need to enhance my programming, analytical thinking, problem-solving, and communication abilities while also developing leadership qualities and stepping out of my comfort zone. Expanding my portfolio through participation in events, competitions, and relevant activities will help me gain valuable experiences and broaden my professional network. The talk also highlighted the significance of self-paced learning, encouraging me to trust in my abilities and forge my own path toward success. By staying proactive, embracing challenges, and committing to personal and professional growth, I'm confident in building a brighter future.

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