

UNIVERSITI TEKNOLOGI MALAYSIA (UTM)
TECHNOLOGY AND INFORMATION SYSTEM
(SECP1513)

INDUSTRY TALK REPORT

SKILLS IN UNIVERSITY AND INDUSTRY

Essential Skills and Strategies
for Career Development

By: Nik Mohd Habibullah Bin Nik
Mohd Niz

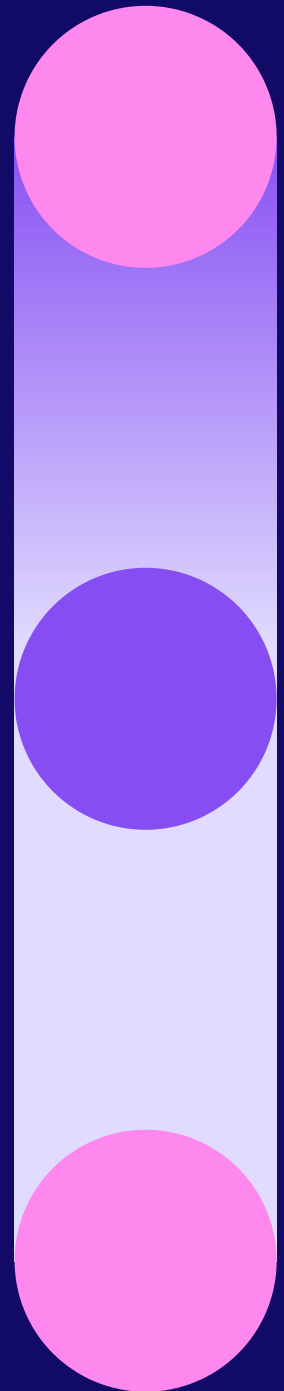
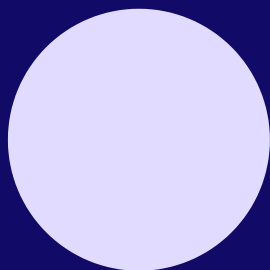
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Instruction

This report is based on the industry talk held on 17 December, sponsored by Mr. Nik Muhammad Habibullah bin Mohd Nizam, a UTN alumnus and entrepreneur. The industry talk highlights the essential skills required for university students to develop in the IT industry, career development, job application strategies, and entrepreneurship.

Speaker experience

Mr. Nik Muhammad Habibullah bin Mohd Nizam graduated with Bachelor of Information Technology certificate from Universiti Teknologi Malaysia in 2005 with over of 19 years of experience in IT and entrepreneurship, with projects that had collaboration with UTM's graphics department and the UTM library, he also founded many companies such as NI Solution, Mikro Semiconductor Sdn Bhd and GetMe hired, Accordingly, he has many achievements over the years and has gained extensive experience in technology and business which has contributed to his success as an entrepreneur and his work has significantly impacted the IT landscape in Malaysia, focusing on developing hardware and software solutions, IoT technology, and AI integration.

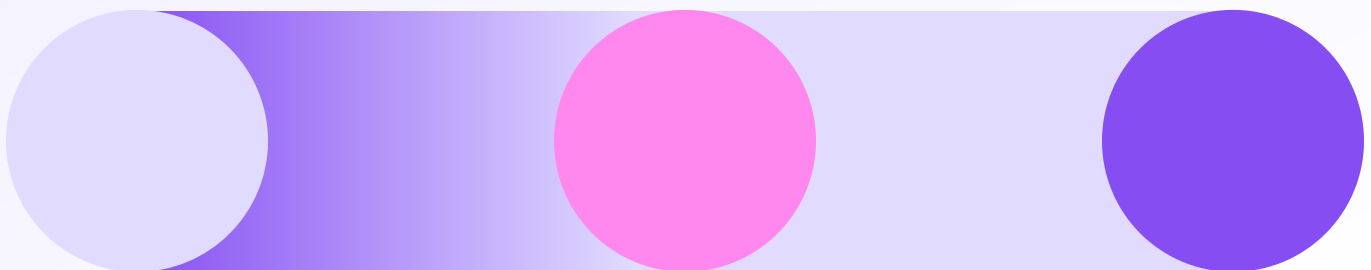
basic skills required for computer science

The speaker stressed that programming languages such as C++ and Python, along with system analysis, system design, database management and cybersecurity, form the foundation of technical expertise. No less important are soft skills such as communication, teamwork, leadership and problem solving, which are essential for collaboration and innovation. Knowledge of project management, including Agile, Scrum and project lifecycle management, enhances a student's ability to contribute to complex projects. Knowledge of tools and technologies such as Visual Studio Code, GitHub, Docker and cloud platforms is an important topic for technological development and knowledge dissemination. Additionally, practicing technology and staying up-to-date and adapting to new technologies helps students move to a more expansive knowledge

skills required by industry

Currently, the IT industry requires a combination of technical and soft skills. Employers are looking for people with extensive technology experience, proficiency in multiple programming languages, and the ability to innovate, analyze, design and test systems. Excellent knowledge of network administration and security protocols is essential to keep the system secure, adaptability and willingness to learn new technologies and develop solutions.

The article "ICT in Malaysia" highlights the growing demand for ICT professionals, emphasizing a noticeable gap between the skills of recent graduates and the expectations of the industry, it can be solved by cooperation between cultural institutions and industry leaders to ensure that students get their academic and practical benefits.



REFLECTION



Yusuf Zain Elabdin

By learning and gain experience in foundational technical skills, soft skills, and be familiar with project management



Loai Rafaat Alqadasi

By discipline and having a clear plan ahead of me, attending courses and important events related to computer science



Mohamed Abdelgawwad

I will be successful in computer science by studying and well understanding the courses that I will take and enrolling in online courses that give me more information and experience about my major. Also, commitment to appointments, organizing my time, and avoiding distractions.



Razan Salah Eldeen

I will work in software engineering by studying hard, understanding my courses, entering bootcamps and learning new skills such like soft skills. I will manage my time, keep my schedule, and avoid distractions to stay focused and improve.

References:

Article: Information and communication technology workforce employability in Malaysia

https://drive.google.com/file/d/1uSTHxkLhRSgOwNwIBAdPPBdKB1KWu_r-/view?usp=sharing

Preparing for Entrepreneurship in IT. UTM Industry Talk.

Preparing for Entrepreneurship in IT Habib.pdf - Google Drive