FACULTY OF COMPUTING
UTM Johor Bahru

SECP 1513: Technology Information System
Semester 01, 2024/2025

ASSIGNMENT 3

SKILLS IN UNIVERSITY AND INDUSTRY

Lecturer:

Dr. Azurah Binti Abdul Samah

Topics of discussion:

- Speaker experience; Encik Nik Mohd Habibullah
- Speaker experience; Encik Mohd Hakimi Iqmali
- Skills required in Computer Science
- Skills required in Industry

Group 6

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Speaker 1 experience

Encik Mohd Hakimi Iqmali is an alumni of UTM year 2014, student of graphics and multimedia software. In 2017,he worked in Me-Tech Solution Sdn.Bhd. From 2018 to 2019, he was a game programmer and animator in Okakichi Sdn.Bhd. 2019-2021, he worked in UTM Research Computing. Currently, he is working in UTM Digital. In his opinion, skills that are needed to succeed in this field are both technical and management. In technical skills, he advised to master programming languages, version control, development tools,database structure, debugging system, security awareness, analytical and logical skills and system framework. On the management side, he advised students to learn skills such as problem solving,technical skills,communication skills,knowledge of SDLC methodologies,testing and quality assurance skills,risk management,documentation and reporting and leadership and team collaboration skills.

Speaker 2 experience

Speaker 2, Encik Nik Mohd Habibullah experienced his first stint in UTM with the UTM library that involved UTM graphic teams. It's about lesson montage by Digital Library.This project was entrusted to him when he was a year 3 student in UTM and soon he did an internship there. He is the founder of NI Solution and Micro Semiconductor Sdn Bhd. He is determined to develop several companies to neglect issues of being selfish. In 2019, his team launched GetMe Hired to help fresh graduates to build their CV .

Skills in Computer Science

Encik Mohd Hakimi Iqmali highlighted his expertise in programming languages such as C, C++, C#, Python, Java, and PHP. He emphasized the importance of mastering programming fundamentals and logical reasoning to adapt easily to various scripting languages. He underlined the utility of version control tools like GitHub and GitLab for tracking code changes, fostering collaboration, and maintaining organized workflows. Additionally, he stressed understanding key database concepts such as tables, primary keys, relationships, and normalization to enhance database efficiency and prevent redundancy. Proficiency in debugging was identified as critical for efficiently resolving system issues. Encik Mohd Hakimi explained that strong analytical and logical skills are essential in simplifying and solving real-world challenges effectively.

Skills in Industry

Encik Mohd Hakimi Iqmali highlighted the critical industry skills necessary for career success, such as early preparation, communication, problem-solving, technical proficiency, and leadership. These skills ensure individuals remain adaptable and competitive across various industries. Engagement in continuous upskilling through platforms like LinkedIn Learning and Coursera and leveraging resources like workplace essential skills programs can help professionals stay relevant and meet evolving workforce demands.

Encik Nik Mohd Habibullah elaborated on practical methods for career development, introducing the IRPA (Soul-Searching) framework—Identify, Research, Prepare, and Apply. Research was emphasized as a crucial step, focusing on the sustainability of the industry, career growth, financial stability, and market competitiveness. The speaker also outlined actionable steps to enhance qualifications through upskilling, which includes researching the industry, studying companies, and reviewing job requirements. If requirements are met, applications should proceed. Otherwise, building a portfolio and enhancing relevant skills was advised before applying. Proper preparation, including creating an up-to-date resume and portfolio, was recommended to maximize career prospects and align with industry needs.

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

ZARIFF BIN MOHAMMAD AZAM

The talk gave me a new perspective on how to improve myself with skills that are relevant in this industry. I see myself getting out of my comfort zone as suggested in the talk 'Designing Success'. In the next four years, I will continue improving, adapting and acquiring skills to be the best I can, guided by the tips I gained from this talk and the talks I will join in the future.

Other than the technical skills, I will put more focus on enhancing my soft skills, as mentioned during the talk. These soft skills include communication, leadership and adaptability.

FATIN SYAKIRAH BIN MOHAMMAD HARDON

The talk emphasized the importance of honing a range of skills, including technical and management abilities, which are crucial in the field of Computer Science. To further enhance my problem-solving capabilities and gain valuable experience, I plan to participate in coding competitions. These opportunities will help me prepare effectively for my upcoming internship. Over the next four years, I will focus on strengthening my fundamental knowledge and logical thinking skills to solve real-world problems effectively, create innovative solutions, and assist in advancements in technology.

SARVESWARI A/P VASUTHEVAN

To succeed in computer science over the next four years, I will focus on mastering key technical skills, including programming languages like C++, Python, and Java, version control tools like GitHub, database management, debugging, and system frameworks, as highlighted by Encik Mohd Hakimi Iqmali. Alongside this, I will enhance management and industry skills such as communication, problem-solving, leadership, and knowledge of SDLC methodologies. By engaging in internships and projects, building a professional portfolio, and leveraging platforms like LinkedIn Learning for continuous upskilling, I will stay competitive in the field. Following the IRPA framework shared by Encik Nik Mohd Habibullah, I will identify industry trends, research career growth opportunities, prepare with updated resumes and portfolios, and strategically apply for roles aligned with my goals.

WONG ZI NING

Inspired by the talk "Designing Success," I plan to focus on key steps to succeed in computer science over the next four years. I will strengthen my technical skills by learning programming languages, exploring AI and cloud computing, and working on meaningful projects. Networking on LinkedIn will help me connect with professionals and discover career opportunities. Researching industry trends and company environments will guide my career choices and keep me aligned with market demands. To stay competitive, I will earn certifications from platforms like Google and LinkedIn. I will also push myself by joining internships, participating in coding competitions, and collaborating on team projects to improve problem-solving, adaptability, and teamwork skills. Creating a strong CV and portfolio will highlight my abilities and accomplishments. With this focused plan, I am confident in building a successful career in computer science.

NUREEN FATINI BINTI ZULKEFLI

By listening to this talk, I notice how essential the programme conducted by the faculty of computing is .Besides getting extra knowledge about academics, I can enhance my soft skills and also my critical thinking about doing projects or ways of facing trouble in the companies. This is crucial to prepare myself for facing the industry world and taking part in doing business.Furthermore, I need to strengthen my coding skills and my knowledge about the newest coding language that is used by companies nowadays and also doing research and projects that include AI to meet up the standard in the computer science field.

Reference:
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- Training Industry. (2023). *5 Essential Skills and Insights to Navigate the Future of Work*. Retrieved from https://trainingindustry.com/articles/strategy-alignment-and-planning/5-essential-skills-and-insights-to-navigate-the-future-of-work/