



Technology and Information System (SECP1513)

ASSIGNMENT 3: ACADEMIC WRITING

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Title : Skills in University and Industry

Section : 05

Instructor's name : Dr. Haswadi bin Hasan

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Background and Experience

Mohd Hakimi Iqmall completed his UPSR, PMR, and SPM from 2002 to 2012. He earned a Diploma in Computer Science (2013-2014) and a Bachelor's degree in Computer Science (2014-2018) from UTM. Professionally, he interned at ME-Tech Solution (2017), worked as a Game Programmer at Okakichi (2018-2019) and a System Programmer at UTM Research Computing (2019-2021). Since 2021, he has been a Project Manager and System Analyst at UTMDigital.

Technical Skills

The talk highlighted essential technical and management skills required for a career in network and security. Technical skills include expertise in various programming languages like C, C++, C#, Python, Java, and PHP, alongside proficiency in version control tools such as GitHub and GitLab. It also emphasized the importance of development tools like Visual Studio and VSCode, knowledge of database structures, debugging systems, and security awareness to address vulnerabilities like SQL injection and XSS. Analytical and logical skills, coupled with an understanding of frameworks like .Net and Laravel, are crucial for system development.

Management Skills

On the management side, the discussion covered problem-solving, technical skills for collaboration, communication skills for bridging stakeholders, and a sound understanding of SDLC methodologies like Agile and Waterfall. Key competencies like QA testing, risk management, documentation, and leadership further ensure project success through effective team coordination and systematic planning.

Preparing for Entrepreneurship in IT

Preparing for entrepreneurship in IT requires a solid foundation in technical skills like software development, IT infrastructure management, and cybersecurity, along with business fundamentals such as finance, marketing, and operations. Understanding how IT solutions solve real-world problems is essential for creating innovative products and services. Effective project management and collaboration with cross-functional teams are vital for turning ideas into successful ventures. Entrepreneurs must stay updated on emerging technologies like AI, cloud computing, and blockchain to innovate and stay ahead in the competition. Building strong connections with tech firms, investors, and universities provides resources and valuable feedback. Finally, identifying market gaps and focusing on problem-solving, innovation, and continuous improvement can lead to the development of disruptive technologies.

Modules (Steps)

The modules for career preparation start with knowing yourself, focusing on understanding your strengths and career goals. Next is job application, which involves learning how to prepare a CV and portfolio. The third step is job interview, which prepares you for interviews and teaches you how to handle rejection. Finally, job survival focuses on staying relevant in the industry and knowing how to transition to your next company.

Common Mistake in Job Hunting

Common mistakes in job hunting include limiting ourselves from exploring opportunities when our degree should help us pursue them. Many wait until after graduation to apply for jobs, but starting early is important as competition increases daily. Another mistake is not joining activities, which are valuable for building connections and experience, so it's important to make time for them.

Lastly, failing to improve communication skills can hurt career prospects, so regular practice and improvement are essential.

Job Application flow

The IPRA method includes Identify your desired job and industry to refine your choice, dig into your interests and needs, reduce the risk of applying for the wrong job, and align your career proposition. Research the job, industry, and company to avoid red flags, have a fulfilling career journey, align your goals with the company's, and prepare for interviews. Prepare a custom or fixed application highlighting your skills. Apply through job portals or email.

Reflection

CHIA THUNG THUNG A24CS0060

In the next four years, I will focus on building a strong foundation in computer science by mastering key subjects like algorithms, data structures, and programming languages. I plan to stay updated with industry trends by engaging in self-learning, attending workshops, and participating in hackathons. Networking with professionals and seeking internships will provide real-world experience. With a growth mindset, I aim to continually learn and adapt, positioning myself for success in the field.

WONG YA JING A24CS0211

This talk allows me to have more exposure to my current career and I've learnt something useful out of the syllabus. Self-awareness and having a correct mindset will smooth our process in problem solving and I find it useful when I step into a working life. In the next four years, I aim to build a strong foundation in the field of computer science and also participate in society activities which allows me to meet new peers and improve my interpersonal skills. Hard skills and soft skills are both crucial for us if we want to be successful in our career.

YEOH KENG WEI A24CS0316

After listening to the talk, I now understand the significance of self-awareness and developing both hard and soft skills. Building a solid foundation in computer science, engaging with peers, and learning outside the classroom are key steps for career success. This reflection motivates me to step out of my comfort zone and embrace opportunities that enhance my professional and personal growth.

EDWIN OO MING HAO A24CS0245

After this talk, I understand the importance of both technical and management skills in software development. Technical skills like programming languages, debugging, and security are vital, while management skills such as communication, risk management, and understanding SDLC methodologies ensure project success. These skills are crucial in every phase, from design and development to testing and implementation, ensuring effective collaboration and project alignment.

ABRALYN HOO WENG YAN A24CS0218

After attending the talk, I realized the importance of balancing technical and soft skills in building a successful career in computer science. Over the next four years, I aim to strengthen my foundation in programming, algorithms, and system design while actively participating in workshops and hackathons to gain practical experience. Besides, I will also improve my communication skills and collaboration. By staying committed to continuous learning and growth, I am confident in preparing for a successful future in the field.