UNIVERSITI KEBANGSAAN MALAYSIA

National University of Malaysia

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GENiUS @Pintar

CAREER PORTFOLIO

Name: Aqil Ar-Rayyan Bin Muhammad Haniff

Class: 3k1

Career Interest: Computer Science

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1. Career Interest

Career Interest: Computer science

Computer Science is the study of computers and computational systems. Unlike electrical and computer engineers, computer scientists deal mostly with software and software systems; this includes their theory, design, development, and application.
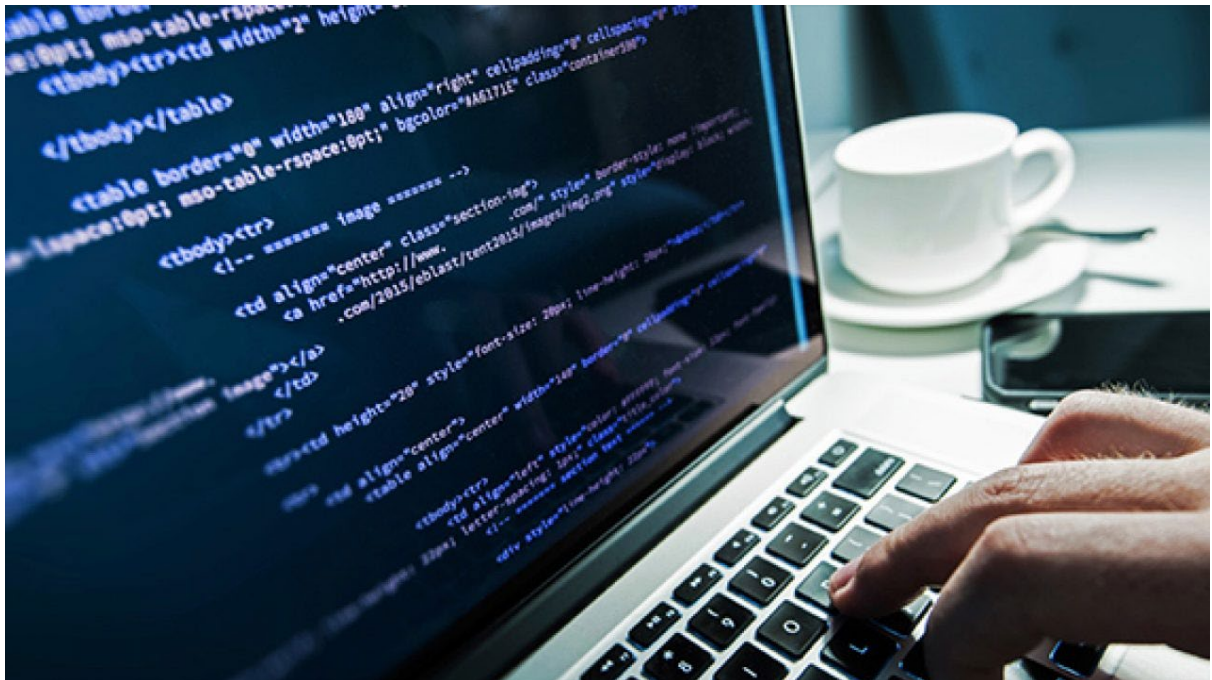
Why computer science?

The most important aspect of computer science is problem solving, an essential skill for life. Students study the design, development and analysis of software and hardware used to solve problems in a variety of business, scientific and social contexts. Because computers solve problems to serve people, there is a significant human side to computer science as well.

Six reasons to study computer science

1. **Computers are everywhere**
   There's not an industry out there that isn't using data and computer technology on a daily basis. Everything from finance and banking, gaming and mobile applications, to healthcare and security all require the specialist skills of professional computer scientists.

2. **Financially rewarding**
   Computer scientists are some of the most highly paid in the world as their skills help businesses keep up with emerging trends. Areas such as cyber security and artificial intelligence, for example, have a shortage of skilled workers so there are plenty of exciting employment opportunities.

3. **Choice of specialisms**
   With a computer science degree you can explore a range of specialisms depending on your career goals. Industries looking for talented programmers include AI, computer security, government, healthcare, agriculture/agritech, education, machine learning and financial services

4. **Global opportunities**
   Multinational companies around the world are looking for computer scientists to solve their business problems. This could be anything from how to analyse big data and drive business strategy to using artificial intelligence to map the evolution and spread of COVID-19.

5. **Develop transferable skills**
   One of the benefits of studying computer science is you will develop skills that are useful in any career. For example, being analytical and good at problem solving are essential skills any employer would look for.

Relevant experience related to Computer Science

1. Joined the Computer Programming course in PPCS 2018 – received first exposure to programming, learned how to code using Python
2. Participated in the Malaysia Mechatronic Competition 2019
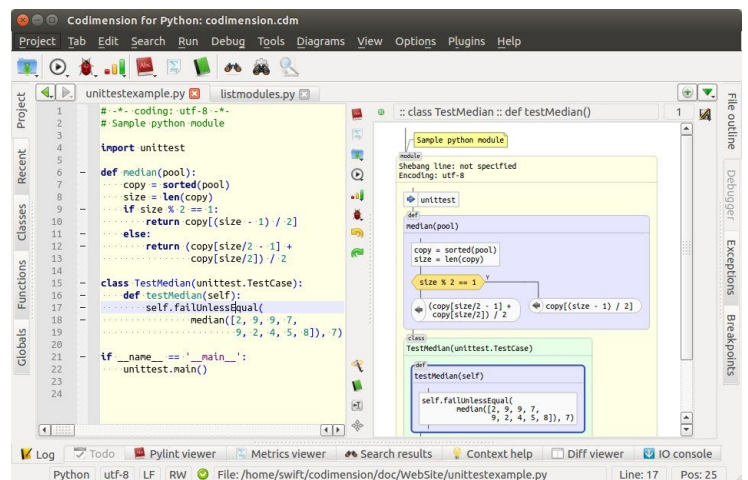
2. University Interest

i) International university

1. Stanford University

- Ranked first for the best universities for Computer Science

- Ranked third in best global universities

- Located in Silicon Valley which makes it unique among computer science programs

2. Massachusetts Institute of Technology

- Ranked second for the best universities for Computer Science

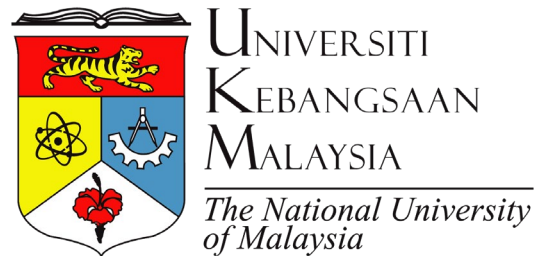- Ranked second for the best global universities

3. Carnegie Mellon University

- Ranked 3rd in best universities for Computer Science
- Ranked 94th in best global universities

ii) Local University

1. Universiti Kebangsaan Malaysia

- Ranked 3rd in best universities in Malaysia
- Ranked 184th in best global universities

2. Universiti Teknologi Petronas

- Ranked 6th best universities in Malaysia
- Ranked 521-530th in best global universities

3. Universiti Teknologi Malaysia

- Ranked 5th in best Malaysia universities
- Ranked 228th in best global universities

3. Scholarship

1) Petronas Education Sponsorship Programme (PESP)

1. Malaysian citizens aged between 17 - 19 years old in 2019
2. Strong leadership skills and active participation (demonstrable) in extracurricular activities
3. Academic qualification required for the sponsored programme:

University	Programmes	Qualification Required
UTP	- Chemical Engineering - Electrical & Electronic Engineering - Mechanical Engineering - Petroleum Engineering - Petroleum Geoscience	Minimum 9A- in SPM 2018, with minimum A for the following subjects: 1. Chemistry 2. Physics 3. Mathematics
Overseas Universities	- Applied Chemistry - Chemical Engineering - Electrical & Electronic Engineering - Electrical & Electronic Engineering (Instrumentation) - Geology/Geophysics - Material Engineering/Material Science - Mechanical Engineering - Petroleum Engineering - Software Engineering	
	- Accounting - Actuarial Science - Computer Science - Economics - Law - Mathematics - Psychology - Sociology - Statistics	Minimum 9A- in SPM 2018, with minimum A for Mathematics