

# INDUSTRIAL VISIT

17TH NOVEMBER 2023



# PETRONAS



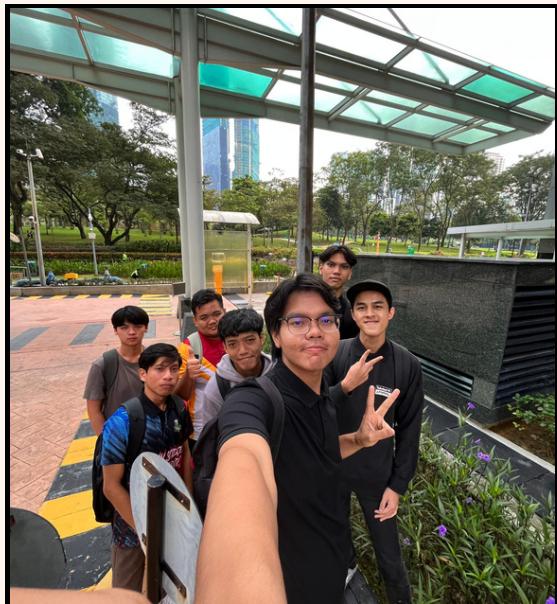
## INTRODUCTION

PETRONAS is a dynamic global energy group committed to delivering and optimizing clean energy solutions to empower sustainable societal growth.

Petronas discussed the job scope in the field of Infrastructure Service and Software Engineering. Infrastructure service focuses more on the software's back-end part, such as maintaining network security to avoid cyberattacks.



SINCE  
1974



One of the technologies discussed was on cellular networks such as 5G where Petronas utilizes its speed for big data and IoT. Some parts of the world have already implemented 6G in their daily tasks such as China. Even 7G technology is already in development which illustrates that technology is rapidly evolving and most people cannot keep up with it. Petronas also utilizes IoT devices and robotics such as an Unmanned Ground/Aerial Vehicle (UGV) to inspect difficult challenging terrain. These are all efforts to reduce human intervention and carbon emissions.

For the software engineering segment, tips and pieces of advice were given on how to become an excellent software engineer. The most valued criterion to be a software engineer is to be adaptable, especially in this fast-evolving world. Other than that, take the time to learn different tools, explore more branches in software development and do self-assessments to find gaps and put in the time to close the gaps.



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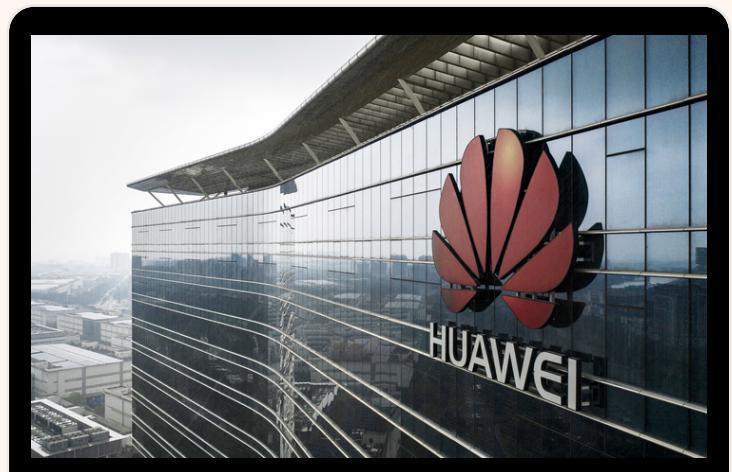


Huawei on the other hand, showcased their gallery where all of Huawei's technology are displayed for educational purposes. An employee was assigned to navigate us through the gallery where brief explanations were given to provide insights and ideas on how the devices work.

Huawei has their own storage infrastructure called the OceanStore Dorado. All the components from the chipset, the controller and hard disks are all by Huawei. This is all in an effort to optimize performance. They also use robots to monitor the infrastructure that are also capable to fix minor issues. The storage infrastructure is intelligently designed that has an open roof to facilitate good airflow to prevent their system from overheating. Huawei is also an expert in Artificial Intelligence (AI) technologies using machine learning in their innovations. They have a technology where machines are able to identify various types of objects. They do this by taking multiple image samples of an item to learn what the object is. In Malaysia, this technology is being used to identify the types of durians by analyzing specific features unique to the durian. It is also used in chili farms to recognize bad and good chilis to pick the best chilis to sell.



**SINCE  
1987**



In a world that is changing quickly, I believe it is critical for me to be proactive and forward-thinking. It is important in staying one step ahead of other people in this highly competitive setting. The rapid development of technology serves as a motivation to always be up to date in an ever-changing environment. It brings impact by being more adaptable to the fast-evolving technology.

Having enhanced analytical thinking and problem-solving skills is also important. Problem-solving is a complex skill. It involves critical thinking, decision-making, creativity, and information processing. Effective problem-solvers use a systematic approach that allows them to break down difficult problems into smaller, more manageable parts. Life-long learning also plays a crucial role. I believe that this skill needs to be practiced and continuously implemented as long as we live.