

# PETRONAS DIGITAL YOUNG GRADUATE PROGRAM (YGP)

## SINTECH ERROR



### INTRODUCTION

- PETRONAS Digital is a key entity within PETRONAS, created to lead creative, forward-thinking solutions that aid PETRONAS in achieving its goal of being a top energy and solutions provider. Through the use of advanced technology, PETRONAS Digital strives to promote sustainable development and improve quality of life.
- Serving as a centralized digital center, the team coordinates technological progress throughout PETRONAS, fueling change and encouraging creativity. As pioneers in the digital space, they concentrate on generating and executing innovative ideas that influence the future of the energy sector.

### Skillset

- **Technical Skills:**
  - Programming languages like Python, R, JavaScript, and SQL.
  - Familiarity with cloud platforms like AWS and Azure.
  - Knowledge of data modeling, ETL processes, and software development life cycles.
- **Soft Skills:**
  - Analytical thinking and problem-solving.
  - Adaptability and a willingness to embrace lifelong learning.
  - Strong interpersonal and communication skills for cross-functional collaboration.
- **Leadership Potential:** Petronas Digital places emphasis on nurturing leadership capabilities alongside technical expertise.

### CONTENT



#### Career Pathway :

##### Young Graduate Program (YGP):

- **Structured 18-24 month employment program designed for fresh graduates.**
- **Includes on-the-job learning, coaching, and structured upskilling.**
- **Covers technical training, leadership development, and real-world project exposure.**

##### Roles and Responsibilities:

- **Software Engineers:** designing, coding, and testing software. It involves cloud development, automation, and building user-friendly applications.
- **Data Engineers:** gather data from various sources, organize it into a unified format, and ensure it's ready and accessible for business use.
- **Data Scientists:** Create predictive and prescriptive models to drive decision-making.

##### Mentorship and Buddy System:

- **Ensures support and guidance for fresh graduates as they transition into corporate roles.**



##### Corporate culture :

- **Teamwork:** Petronas values diversity, bringing together employees from various backgrounds to solve problems collaboratively.
- **Growth Opportunities:** The Young Graduate Program provides clear career pathways, mentorship, and rotational roles, ensuring employees gain well-rounded experiences and develop leadership skills.
- **Work-Life Balance:** Petronas encourages work life balance to employees through activities like sports, arts, and wellness programs. These initiatives enhance creativity and overall happiness.
- **Purpose-Driven Goals:** Beyond profits, Petronas focuses on making meaningful contributions to society through sustainable energy solutions and community programs like PetroSains and KLCC Park.
- **Acknowledgment and creativity:** Staff are encouraged to collaborate on concepts and assume responsibility for initiatives. Their efforts are appreciated, fostering a culture that prioritizes innovation and hard work.



### EXECUTIVE SUMMARY

The career talk focused on how jobs in Information Communication Technology (ICT) are evolving to play critical roles in industrial transformation. Key highlights included information about Petronas Digital's commitment to integrating cutting-edge technologies in data science, software engineering, and data engineering to drive business efficiency and sustainability. The speakers emphasized how ICT professionals contribute to solving real-world problems, promoting sustainability, and creating innovative solutions. Through structured graduate programs, the organization aims to build future-ready talents who can navigate the demands of digital transformation.



### REFLECTION



- The talk is about how ICT, particularly in roles like software engineering, data engineering, and data scientist plays a transformative role in industries. ICT makes companies like Petronas into transition from traditional oil and gas operations to sustainable energy solutions. This showed us how digital technologies are generating long-term environmental and societal advantages in addition to resolving operational issues.
- The structured programs at Petronas, Young Graduate Program, demonstrate a strong commitment to supporting fresh talent. The focus on mentorship, hands-on projects, and leadership development inspired us to value environments where continuous learning is encouraged. It motivated us to pursue a career where we can grow professionally while contributing to meaningful, innovative work.



**RAFLY SALIM  
KAAFFAH ABDILLAH**  
• A24CS9009



**HANIS SOFIYA BINTI  
BADRUL EHSAN**  
• A24CS0080



**MUHAMMAD AFIQ SHAHIR  
BIN ABDUL RAHIM**  
• A24CS0123



**MUHAMMAD HAIQAL  
RAZEEQ BIN MOHD ZAIDI**  
• A24CS0134