

INDUSTRY TALK WITH PETRONAS DIGITAL



SECP1513 TECHNOLOGY & INFORMATION SYSTEM

INTRODUCTION

PETRONAS DIGITAL is a dynamic team shaping innovative, future-ready solutions to support PETRONAS, Malaysia's only Fortune 500 company, in its mission to be a progressive energy and solutions partner, enriching lives for a sustainable future. Leading the way in technology, PETRONAS Digital aims to be a leader, driving forward with groundbreaking ideas and transformative innovations.

Reference: <https://www.linkedin.com/company/petronasdigital/>

EXECUTIVE SUMMARY

PETRONAS DIGITAL YOUNG GRADUATE PROGRAMME (YGP)

An 18- to 24-month structured initiative providing permanent employment for fresh graduates. The programme focuses on real-world exposure, on-the-job training, and professional development through coaching and mentoring to prepare young talents for future challenges.

REQUIREMENTS

- Malaysian citizen
- Degree holder with a minimum CGPA of 3.0
- Fresh graduate with less than 2 years of working experience

WHAT YOU WILL GAIN ?

- Structured Upskilling
- Learning buddy
- Performance Coaching
- Build leadership capabilities
- Immersion in digital projects
- Energy industry knowledge

SOFTWARE ENGINEER

A wide field that involves creating, building, updating, and maintaining software systems that help businesses run smoothly and efficiently.

SKILLS REQUIRED

- analytical thinking & problem-solving skills
- programming skills
- understanding of software development process(SDLC)
- life-long learning
- keep up based industry trend & technology

CORE COMPETENCIES

- Programming skills (HTML , Java , Python)
- Database design (MS SQL , Azure SQL)
- API Development
- Cloud Development (AWS)
- IDE/Platforms/Tools (MS Visual Studio , GitHub, Azure DevOps)
- Quality Assurance
- DevSecOps (adoption via CI/CD pipelines & integration with code quality & security tools)
- Observation (Dynatrace , ELK)
- Automation (Testing , DevOps)

Presented by :

Roman Kvaska
Head of Software Engineering
Ernie Yap Kian Ern
Executive of Software Engineering

DATA ENGINEER

A practice that involves creating systems to collect, store, and analyze large amounts of data, making it easy for business users to access and use the data.

ROLES

- Data Analyst
- Data Engineer
- Data Architect
- Big Data Engineer
- Data Quality Engineer
- Data Modeler

JOB SCOPE

- Business data acquisition
- Understand data and their sources
- Engage source focal and communicate data requirements
- Perform data testing with business

WHAT YOU SHOULD HAVE ?

- Instructor-LED trainings
- Self-paced online learning
- Skill assessments
- On-job assignments
- Masterclass series
- Certifications



Presented by :

Khairul Nazri Lokman
Head of Data Platform Services
Nazrinakmal Najmudin
Executive of Data Platform Services

DATA SCIENCE

Focuses on refining data to create more value and impact for the business. It turns data into products that evolve from basic information to actionable insights that help guide decisions on business operations, work, and daily life.

SKILLS REQUIRED

- Visualization
- Developing machine learning
- Agile development practices
- Model deployment and management

JOB SCOPE

- Process data
- Perform exploratory analysis
- Generate insights
- Build predictive models
- Develop prescriptive models

WHAT YOU SHOULD KNOW ?

- Business logic
- Operational processes
- Physical models
- Financial models
- Available data
- Data relevant to the project

Presented by :

Dr Asaad Abdollahzadeh
Head of Data Science
M Farhan Kamaludin
Senior Data Scientist

REFLECTION

"From the industry talk, I believe PETRONAS Digital is an excellent choice for fresh graduates to start their careers. Joining the company offers graduates numerous benefits and opportunities for growth. Also, to become a good engineer or scientist, you need to develop and refine a wide range of skills"

ADAM SYAHMI BIN ABDULLAH
A24CS0219
@syhmi18



"I have gained a deeper understanding of the opportunities and expectations in the digital and IT fields particularly through the PETRONAS Digital Young Graduate Programme (YGP). This program stands out as a special opportunity for fresh graduates to gain essential technical and interpersonal skills"

PRAVEIN A/L LETCHUMANAN
A24CS0179
@Pravein2286



"I think the employees in PETRONAS dare to give an idea and speak in front of people to make the company more innovative, open-minded and competitive. The company also more supportive and give motivation to their employees to make the good environment in the company and resulting their current success"

MUHAMMAD AMIRUL AIMAN BIN ABDULLAH
A24CS0124
@aimanbraxang



"From this industry talk, I gained a clearer understanding of the skills I need to develop for my future career. It also helped clear up any doubts I had about what it's like to work in an IT company, giving me a better idea of the roles and challenges involved in the field"

MUHAMMAD AFIQ IRFAN BIN ZURAIMI
A24CS0122
@Af1q1r-fan04



"From this talk I learned the importance of adapting to advancements in technology, particularly in the AI and digital fields. It make me realise that we need to make a change for ourself to adapt the change of technology"

MUHAMMAD HAZIM BIN ZULKANAIN
A24CS0136
@hazim101205

