



# INDUSTRY TALK 1

## PETRONAS DIGITAL TALENT PROGRAM


**PETRONAS**

## WHAT IS PETRONAS DIGITAL?

-Nizam Ahmad

PETRONAS Digital is a diverse workforce driving future-proof innovative solutions to enable PETRONAS to be a progressive energy and solutions partner, enriching lives for a sustainable future.

Roman Kvaska

Head Software Engineering

Focusing on software engineering and its career development. He explained why students should consider a career in software engineering, emphasizing the high expectations and skills that need to be learned in this field. The speaker then defined the role of a software engineer, including the understanding of computer hardware, software, programming languages, frameworks and design principles, as well as the ability to deliver high-quality code and adapt to rapidly changing technologies. Finally, the speaker briefly introduced the Software Development Life Cycle (SDLC) and their 18-month software engineering program, which allows participants to play different roles such as software engineers, QA engineers, and DevOps engineers.

Ernie Yap Kian Ern

Executive Software Engineering

He is a graduate with a degree in data science, and joined PETRONAS in October 2020. In the past year and a half, he has worked as a software engineer and solution architect. His daily work includes a lot of coding, working with other developers to ensure code quality, code review, and participating in daily stand-up meetings. Petronas focuses on software engineers' understanding of business processes and encourages the combination of technology and business. New technologies and skills are constantly learned at work, and the company also provides training and certification support (such as AWS). Software engineering requires activeness to participate in new projects and learn new technologies. This is a challenging but rewarding job that requires enthusiasm and continuous learning, continuous improvement of skills and salary, and broadening of horizons.

Khairul Nazri Lukman

Head Data Platform Services

Sharing mainly introduces the company's achievements in digital transformation: successfully empowering about 400 engineers and training about 50 operations staff. Data has become the most important asset, and the company's way of dealing with data has also changed fundamentally. The data engineering team in our department handles massive amounts of data from hundreds of data sources. The team members have diverse skills and their work covers data collection, integration, processing and final delivery to business users for decision-making. There are multiple roles within the team, such as engineers responsible for data extraction, transformation and loading, and engineers working with data architects and data scientists. All roles are closely connected and there are rich learning opportunities.

Dr. Asaad Abdolllahzadeh

Head Data Science

The data science department has about 150 members, 50 of whom have more than 5 years of experience. The team members have diverse backgrounds, including undergraduates, masters and doctoral students with different professional backgrounds such as data science, engineering, and medicine. The department emphasizes the importance of continuous learning, which requires a solid foundation in mathematics, statistics and programming, as well as good communication and storytelling skills. The work of data scientists covers a wide range of fields, such as computer vision, predictive models, etc., and is closely integrated with the business. The company attaches importance to employee development and is committed to helping employees achieve their personal goals.

M Farhan Kamaluddin

Senior Data Science

This job requires creativity and independence, and also gets a lot of support from legal scientists. New problems will be encountered in daily work, and new technologies and knowledge need to be continuously learned, and colleagues learn and grow from each other. The team regularly conducts internal knowledge sharing and online learning, constantly solves business pain points, and needs to have the ability to solve problems creatively. It is recommended that people who want to work in this field should ensure scientific and technological, engineering statistics and data analysis capabilities, and be able to extract business insights from data.

## DIGITAL YOUNG GRADUATE PROGRAM

-Bernadene

## SHARING SESSION

Petronas Digital offers a wide array of fascinating career opportunities within the digital sector. Within software engineering, an 18 to 24-month Young Graduate Program is available. This initiative provides an in-depth exploration of the software development life cycle. Participants will gain insights into the complexities of both computer hardware and software, alongside developing skills in a variety of programming languages and design principles. Engaging in practical projects assists hands-on experience, allowing for the application of these skills in a collaborative team setting to create high-quality software solutions.

## WHAT YOU WILL GAIN

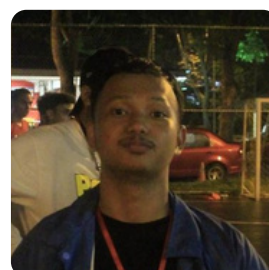
- Structured Upskilling
- Learning Buddy
- Performance Coaching
- Build leadership capabilities
- Immersion in Digital projects

## REFLECTION

PETRONAS Digital Talent Program provided insightful perspectives into the digital landscape and career opportunities at PETRONAS Digital. Each speaker emphasized the significance of embracing digital transformation, fostering innovation, and building technical and soft skills to thrive in this dynamic industry. Key takeaways include the importance of continuous learning, collaboration across departments, and leveraging technology to drive business success. The speakers' diverse experiences showcased PETRONAS Digital's commitment to nurturing young talent through structured programs and mentoring, equipping them with tools to excel in various digital roles. The session was both inspiring and informative, encouraging attendees to think critically about their career aspirations in the tech-driven future

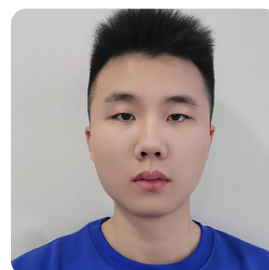
## OVERVIEW

Muh Khairil M  
A24CS4028



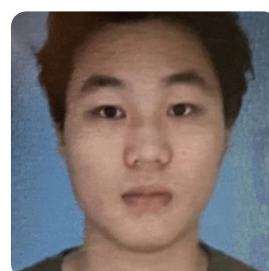
The key takeaway from the PETRONAS Digital conference is the importance of continuous learning and adaptability in the rapidly evolving world of technology. A career in software engineering is not just about technical skills like coding but also understanding business processes and collaborating across teams. Programs like the PETRONAS Digital Talent Program allow us to grow through hands-on experience, training, and certifications. Additionally, the conference emphasized that data is a valuable asset that can transform business operations. It's essential to stay enthusiastic about facing new challenges, improving skills, and building a better future through technological innovation and hard work.

Liang Tianqi  
A21EC3057



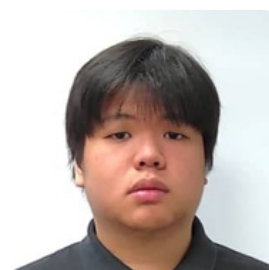
Overall, the Petronas Digital Talent Program stands out for its innovation and comprehensiveness, offering young graduates a structured and highly tailored career development pathway while showcasing how businesses can foster deep integration of technology and operations amid the wave of digital transformation. Through a highly collaborative team environment, extensive learning resources, personalized mentoring, and active engagement in real-world projects, the program is dedicated to nurturing the next generation of talents with strong technical leadership and a spirit of innovation. Additionally, the program's design and implementation reflect Petronas' long-term commitment to sustainable development and talent growth, focusing not only on enhancing technical skills but also on developing leadership capabilities and adaptability.

Huang Yingkai  
A24CS4016



Petronas Digital cultivates a culture of continuous learning, development, and meaningful impact. It represents an exciting destination for those aspiring to begin a rewarding career path in the digital space. Also, we gain insights into the complexities of both computer hardware and software, alongside developing skills in a variety of programming languages and design principles.

Mohamad Adrian  
A24CS0268



The session introduced the PETRONAS Digital Talent Program, aimed at developing professionals for the fast-evolving digital industry. Speakers from roles like Software Engineering, Platform Services, and Data Science shared insights on how digital transformation is reshaping business operations. Participants gained knowledge on career opportunities, essential skills, and PETRONAS's innovative approach to digital solutions, emphasizing collaboration, hands-on training, and continuous learning for impactful contributions.

Liu Yuehui  
A24CS4019



The PETRONAS Digital Talent Program, including the Young Graduate Program (YGP), is an 18-24 month initiative designed to accelerate growth in roles like Software Engineer, Data Engineer, and Data Scientist. It offers skill development in programming, data analysis, and innovative tools, paired with career mentorship and cross-functional projects. Participants gain technical expertise while aligning with business needs through projects like data platforms and IoT solutions. The program supports career advancement with certifications, rotations, and exposure to diverse teams. Open to Malaysian graduates with less than two years of experience, it provides a flexible, dynamic platform to excel in the digital field.