



INDUSTRY TALK 2: SYSTEM DEVELOPMENT AT CREDENCE TM SUBSIDIARY

Content:

System Development:

Analytics Intro

Roles

Software

Reflection:

How do I become a software developer in next four years

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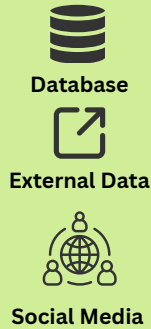
MUHAMMAD ARIF HAKIMI BIN MOHD SOFI (A23MJ5008)

MUHAMMAD SYUKRI BIN MOHAMAD TAUFEK (A23MJ5009)

MUHAMMAD AFIF HAZIQ BIN ZULKHAIRI (A23MJ5054)

System Development

Data



Data Collection



Data Transformation



Analytics and modelling



Prediction and Visualization

Insights



Business Analyst

Business Analyst main role is to engage with the client and gather information or data from the client. Then the data will be given to the technical team.



Data Analyst

Data Analyst Main purpose is to analyse the data. They need to have strong skill and understanding in programming.



Data Architect

Data Architect main role is to construct the whole process of the project. They will determine the software that will be used to develop the system.



Data Engineer

Data engineer will do all the data gathering. They will merge any outsource data came from client. Strong skill and understanding in programming



Data Scientist

Data Scientist do a lot of studies, findings and research about new technology. They will also determine if the technology can be applicable to the company or otherwise.



BI Developer

BI developer is more focus on visualization UI/UX and build dashboard for the client. They will use all of the data that has been gathered by the team.

Software use in Credence

Database



PostgreSQL is most used in Credence.

Visualization/Tools



Depends on the client budge but these two are open source and very flexible for all types of clients

ETL/ELT



Airflow data collection transform into data that can be use in database for AI developer use.

Programming Language



Python and SQL are two main language used in Credence and it is mostly use in their system development.

REFLECTION

Adam Azraei

To become a system developer, one must be brave to face difficult challenges and able to work in a team. These two things are the most important things I need to improve because being able to work in a team means I can improve my soft skills and have a chance to lead the project. Being a leader is not an easy task, therefore this could also cultivate the leadership skills and able to face difficult situation.

Muhammad Arif Hakimi

A successful system developer possesses a combination of technical skills, soft skills, and a mindset that is able to adapt towards problem-solving situation. The key skills and qualities I would focus on improving are skills regarding the theories of becoming a system developer fundamentally, such as improving programming abilities as well as understanding other programmer's codes, having a good grasp on database management, the core concept behind system architecture and also building a good foundation on understanding web development. An excellent system developer also has to acquire soft skills that are essential to the working world, like having high level of communication skill to effectively converse and communicate ideas with colleagues as well as being able to understand and fulfill client needs. These aspect of skills are what I would focus on to become a successful system developer in the near future.

Muhammad Syukri

I think becoming a software developer will be an exciting and rewarding journey. However, it will require dedicated period of learning and gaining experiences. I would also need to identify specific areas of software development that I am interested in so that I'm clear on my goals and aspirations. I would also need learning plan that goes over fundamentals of a software developer and works on hands-on projects to reinforce my learning and build my portfolio. In addition, I think it would serve me well if I build a network within the relevant community and develop soft skills. In conclusion, I should embrace the challenges as opportunities for growth and enjoy the journey.

Muhammad Afif Haziq

To become a system developer, I have to develop the necessary skill for a system developer such as my programming skill, understanding about database and learning the necessary programming language used by system developer. Other than that, I have to develop my soft skills so that I can communicate effectively with colleagues and client. In conclusion, I should prioritize developing these skills in order to be a system developer in the future.