



Jack Chew

30 Years Old

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An Experienced Data Engineer/Analyst, with a focus on data analytics in the engineering domain. Skilled in developing automation solutions, optimizing system performance, and resolving complex operational issues in industrial settings. Familiar with a broad range of modern data tools and platforms, and most importantly, optimistic, great attitude and easy to work with. 😊

PROFESSIONAL EXPERIENCE

Manpower Staffing Services (S) Pte Ltd

Tuas, Singapore

Data Engineer

Oct 2024–Present

- Work onsite at **Sanofi Singapore's EVF Modulus facility**, partnering with MSAT process engineers, automation teams, and IOT experts.
- Exploit opportunities to leverage site data to develop data engineering and machine learning (ML) models and real time process monitoring approaches.
- Partner with internal stakeholders from multiple departments to identify opportunities for applying data engineering and process monitoring solutions for new manufacturing facilities.
- Support various stakeholders to ensure timely delivery of data engineering, visualization, ML and AI capabilities.

Skills involved:

1. Develop scalable and maintainable code in Python and SQL to support Sanofi's EVF Modulus manufacturing operations.
 2. Integrate data pipelines with existing automation systems, including real time data capturing systems.
 3. Design and implement ETL (Extract, Transform, Load) pipelines for data ingestion and processing.
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Omron Asia Pacific

Data science engineer

Alexandra Technopark, Singapore*August 2022–Oct 2024*

- Provide data analysis services for regional customers (Asia Pacific) (Jupyter Notebook, Python, Pandas, Matplotlib, and Sklearn)
- Real time data visualization + alerting solution deployment and development for regional customers. (Docker, Grafana, and Apache superset)
- Developed a time-critical data streaming applications that bring industrial data to the cloud for visualization + analysis (C#, AWS RDS, EC2)
- Regional technical trainer for industrial data management platform. (Data streaming, storage and visualization platform)

Skills involved:

1. Software development for real data capturing and processing (Python, Docker, SQL)
2. Understand network protocol in Operation Technology (OT) layer + Information Technology (IT) layer such as Modbus RTU, Modbus TCP, MQTT and others.
3. Collaborate with experienced E&E, mechanical, and software engineers to design software that solve real world industrial problems.
4. Application development using C# for industrial applications.

Vanguard International Semiconductor Company

Equipment Engineer

Pasir Ris, Singapore*Feb 2019–April 2022*

- Data analysis on equipment process data and conduct experiments to spot opportunities for process condition improvement.
- Design and implement advanced process monitoring and control methodologies.
- Equipment troubleshooting and modification project management. (Project development, tracking and closure)

Skills involved:

1. Understanding the overall wafer fabrication process.
 2. Understand mechanical and electrical systems of semiconductor manufacturing equipment.
 3. Equipment fault detection and root cause finding skill.
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EDUCATION

Le Wagon

Certification in Data Science

Singapore

July 2022

Skills:

Data Processing: Python, SQL Database Query, Data Analysis, Data Visualization.

Mathematics: Statistics, Probability, Time-Series, Linear Algebra.

Machine Learning: Features Engineering, Pipeline, Model Iterating,

Deep Learning: Deep Neural Network, Convolutional Neural Network

Data Engineering: Containerization, Model Deployment, Cloud Computing

UNIVERSITI TUNKU ABDUL RAHMAN

Bachelor of Engineering (Honours) in Petrochemical Engineering

Second Upper Class (GPA: 3.2/4.0)

Malaysia

May 2018

Skills:

Knowledge in thermodynamics, physical chemistry, simulation, and quantitative analytics skills required in the engineering profession.

SKILLS

Programming Language

- Frontend: HTML, CSS, Javascript
- Backend: Python, C#

Python Libraries

- Pandas, Matplotlib, Sklearn, Scipy
- Tensorflow, Numpy

Software Tools/Technologies

- Docker container
- Postgres (SQL Database)
- Object Oriented Programming
- Amazon Web Services RDS, EC2

Language

- English
- Chinese