Yeung

ABOUT ME

I'm Yeung (jǘŋ), a Senior Data Engineer with **5 years** of hands-on experience in **Data Analytics, Data Engineering and Data Science**.

Currently Working on multiple projects involving Generative AI solutions. Data Migration & Engineering Solutions and Data Analytics.

SKILLS

PROGRAMMING

PYTHON
(4+ year of exp)
Big Data: Spark, NumPy, Pandas, Matplotlib, Seaborn
AI/ML/DL: SKLearn, OpenCV, TensorFlow, PyTorch, LangChain, LlamaIndex

JAVASCRIPT / JAVA / C++ / C#
(<1 year of exp)
ReactJS, NextJS, NodeJS

DATABASES & SQL
Microsoft Server SQL (MSSQL)
MYSQL

CLOUD TECHNOLOGIES
Azure – Data Storage, Data Factory, Fabric, DataBricks

OPERATING SYSTEM
Windows
UBUNTU (Linux)

Others
Leadership and Project management
Workshop and Presentation Skills
Public Speaking
Computer Aided Design & Engineering
(SOLIDWORKS | Creo® Parametric & Simulate)

CONTACT

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YEUNG HOW TAN

Senior Data Engineer (Data and AI)
Kuala Lumpur, Malaysia.

EXPERIENCE

Senior Data Engineer

FWD Technology and Innovation - Kuala Lumpur, Malaysia (Apr 2024 – Present)
- Managed and led multiple cross-functional teams across 5 countries in executing group wide data migration project, ensuring seamless integration of existing downstream applications. (Developed underlying migration accelerator and coordinated with downstream application developers and engineers with code refactoring and deployment)
- Spearheaded and defined several platform standards and best practices via comprehensive documentations and conducting of knowledge sharing workshops across countries.
- Designed and established several standardized practices on the group managed data platform, enabling Improved data governance, scalable & maintainable access controls and reducing future administrative overhead by at least 50%
- Conducting Code Reviews and Architecture Design for all new code deployed on platform.
- Designed and implemented a group-wide financial data model pipeline, enhancing the accuracy, accessibility, and processing efficiency of financial reporting across the organization.
- Deployed multiple data pipelines for regional business users, balancing stakeholder expectations with technical delivery and contributing to data modelling.
- Managed Group Platform RBAC access and compute policies.
- Monitored and optimized cloud compute costs, achieving a monthly reduction of USD$2000

Senior Technology Consultant

Ernst & Young Consulting - Kuala Lumpur, Malaysia (Jul 2022 – Mar 2024)
- Developed a Proof-of-Concept Application using Azures OpenAI LLM models and implementing Retrieval-Augmented Generation (RAG) supplemented with Langchain agents and vector stores.
- Reoptimized existing tables and pipeline, data migration from SQL stored procedure to Databricks Spark SQL using Azure Data Factory as orchestrator for a Utilities company.
- Researched and developed a subscription-based strategy & architecture blueprint for an O&G company to migrate existing downstream vessel scheduling application with cost saving up to 400k USD per annum
- Built an enterprise data warehouse and developed several ETL pipelines for a financial institution with on-premise MSSQL servers for report generation
- Conducting client training sessions for platform handover and case study implementations
- Played an integral role as system QA Lead and UX dev for client's PMO system

Software Engineer

Thunder Software Technology Malaysia - Penang, Malaysia (May 2022 – Jul 2022)
- Systems and Hardware setup of Nvidia Jetson modules
- Running and benchmarking of Nvidia DeepStream applications
- Creating and authenticating new workflow documentation.

AI & ML Engineer

XPRESS.AI / SKYMIND CNS - Kuala Lumpur, Malaysia (Dec 2020 – May 2022)
- Developed a KYC (Know-your-customer) App consisting of Multi-complementary AI models
- to perform fraud & anomaly detection on identification cards
- Developed, Trained and Deployment of deep learning models using Pytorch
- Developed information extraction pipelines on identification cards using OpenCV library
- Acting Image Curation lead to standardize selecting, annotating, organizing, and managing image data
- Acting Technical Support Engineer, Liaising with Clients on feature request and future improvements
- Experience with modelling neural networks such as CNN, Autoencoders, UNet, Mask RCNN
- Experience with OpenCV, Matplotlib, SKlearn, Pandas, Numpy Library

Mechanical Research & Design Engineer

Panasonic AVC Networks - Kuala Lumpur, Malaysia (Mar 2019 – Jul 2020)
- Designed and developed mechanical and structural parts for the global TV market from concept to launch.

Mechanical Engineer

Solidify Technology - Kuala Lumpur, Malaysia (Oct 2018 – Mar 2019)
- Developed VBA macros to cut RFQ process, management & documentation time by 60%
- Audited and reworked ISO9001 documentation.

CERTIFICATIONS

Microsoft Azure Certifications

Azure Fundamentals	(AZ-900)
Azure AI Fundamentals	(AI-900)
Azure Data Fundamentals	(DP-900)
Azure AI Engineer Associate	(AI-102)
Azure Administrator Associate	(AZ-104)
Azure Developer Associate	(AZ-204)
Azure Data Scientist Associate	(DP-100)
Azure Data Engineer Associate	(DP-203)
Azure Fabric Analytics Engineer Associate	(DP-600)
Azure Solutions Architect Expert	(AZ-305)
Azure DevOps Engineer Expert	(AZ-400)

AWS Certifications

AWS Certified Cloud Practitioner	(CLF-02)

DataBricks Certifications

- Databricks Lakehouse Platform Accreditation (v2)
- Databricks Certified Data Engineer Associate (v3)
- Databricks Data Engineer Professional

Certified Deep Learning Engineer Bootcamp

SKYMIND, (Aug 2020 – Sept 2020)
- Learning to use the DL4J library.
- Passed Certified Engineer in Computer Vision examination.
- Milestone Project to detect facial landmark features for driver awareness detection.

EDUCATION

Masters in Engineering (Hons) in Mechanical Engineering

The University of Nottingham | Nottingham, UK (Sep 2014 – Jul 2018)
- Second Upper-Class Division (2:1) | GPA equivalent: 3.7

Cambridge A-Levels

Methodist College Kuala Lumpur | Kuala Lumpur, Malaysia (Jan 2013 – Jul 2014)
- Physics |A*
- Chemistry |A
- Mathematics |A
- Further Mathematics |B

PROJECT EXPERIENCES

EY OPEN DATA SCIENCE CHALLLENGE

Level 1 Challenge - Rice Crop Classification   (2023)
- Lead a team of associate to develop a binary classification model for rice crop landmass using satellite multiple bands of synthetic aperture radar data.