

Suchanat Ratanarueangrong

Data Engineer

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SUMMARY

Motivated Data Engineer Intern with an IBM Data Engineering Professional certification and currently pursuing Computer Engineering at KMUTT. Eager to apply skills in real-world data projects and deliver impactful solutions.

LANGUAGES

Thai (Native)
English (IELTS: 6, SAT: 1140)

SKILLS & PROFICIENCIES

- Programming Languages: Python, SQL, R, C, bash
- Data Processing: Apache Spark, Apache Kafka, Apache Airflow, Hadoop
- Databases: MySQL, PostgreSQL, MongoDB, Cassandra, Amazon Redshift, Snowflake, Looker Studio, PowerBi

PROFESSIONAL EXPERIENCES

Mitr Phol Group

Oct 2024 - Mar 2025

Back End Developer (Part-Time)

Design and implement back-end API services integrating 3 machine learning models for license plate recognition and sugarcane quality segmentation at Mitr Phol's 50 factories. Enabled pollution tracking by identifying burnt sugarcane during harvest, with data shared via public APIs to government organizations.

- Design and implement public API endpoint, and how to send the data to the government organization vendor
- Automated installation on new PC with fernet encryption
- Setup AWS Ec2 to be validator security checking
- Modified the logic to ensure there is no duplicate truck image snap

Mitr Phol Group

Jan 2024 - Jun 2024

Data Engineer (Part-Time)

Develop a carbon credit platform using satellite imagery and image segmentation to measure carbon footprints, issue carbon credits, and boost farmer income, benefiting Thailand's economy.

- Design, Implement, and Maintain Data Warehouses (snowflake)
- Data Processing and Optimization
- Develop Front-End using Streamlit

COMPETITIONS & PROJECTS

OP-GovGPT (Open-Source)

Aug 2024 - Present

Build an open-source chatbot for the Optimism community to streamline support and quickly address inquiries, reducing the need to search forums or documentation.

GitHub project repository: [OP-GovGPT](#)

- Develop a multi-agent LLM architecture with a FastAPI-based REST API that supports parallel processing.
- Implement vector datastore and hybrid search using MongoDB atlas.

ExxonMobil Bootcathon 2024 (First runner-up award)

Jun 2024 - Jul 2024

Create a chatbot to assist ExxonMobil customers via the website and line OA.

GitHub project repository: [ExxonMobil-Bootcathon-2024](#)

- Develop multi-agent chatbot, text-to-speech, speech-to-text, and real-time web search.

Mitr Phol YES Talent Camp 2023 (First runner-up award)

Sep 2023 - Oct 2023

A platform that collects carbon credit data using satellite imagery to increase farmer income.

- Develop RAG chatbot, Front-end, Back-end, and Polygon Google mapper.

Depa Growth Lab GEN AI HACKATHON Powered by AWS (Top 10 Finalist)

Oct 2024 - Nov 2024

A professional business consultant chatbot will help J-ventures improve communication between J-ventures and customers, maximizing the revenue for J-ventures.

- Develop line OA multi-agent consultant bot with a business diagram image generator.
- Fine-tuned the Amazon titan model to make it understand the context of J-ventures solution information.

EDUCATION & CERTIFICATIONS

King Mongkut's University of Technology Thonburi, KMUTT

Major: Computer Engineering (International Program)

Scholarship: Panasonic Scholarship Asia 2023

GPAX: 3.6, Duration: 2022 - Present (Junior year)

Bangkok Christian College, BCC

Major: Aerospace Engineering Track

GPAX: 3.61, Duration: 2011 - 2022

EXTRACURRICULAR

Staff of BCC Cansat Rover Competition

Be the mentor of grade 10 students of the BCC school of Aerospace Engineers track.

The Geen

As a nominee, I will sort the rubbish and assist the public in using the appropriate recycling bins at CentralWorld .