

CHANATHIP AOIBUMRUNG

(Tor)

Data Engineer · AI Engineer

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PROFESSIONAL SUMMARY

Experienced in data engineering and AI development with a strong foundation in Applied Mathematics. Skilled in logical thinking and building data-driven solutions across the full spectrum — from infrastructure and pipelines to AI model development and deployment. Passionate about continuous growth and excited by new technologies.

PROFESSIONAL EXPERIENCE

Data Engineer | Freelance

Mar 2026 – Present

- Contributed to a cloud data migration project on GCP, ingesting data from diverse sources including Kafka, APIs, and SFTP.
- Built and maintained data pipelines on Cloud Run, Dataflow, Dataform, and BigLake Metastore to ensure reliable and scalable data flow.
- Enabled downstream data consumption via BigQuery and Vertex AI to support analytics and ML workloads.

AI Engineer | Freelance

Nov 2025 – Feb 2026

- Refactored AI application architecture from monolith to microservices, improving scalability and maintainability.
- Built AI endpoint inference pipelines to generate diverse content formats including video, infographics, artifact canvas, and slide decks.
- Implemented an AI agent router within a chatbot application to optimize token usage, reduce cost, and improve response quality.
- Produced AI-generated video content for advertising campaigns and educational materials.

AI Engineer | True Internet Data Center

Oct 2024 – Dec 2025

- Developed business-oriented AI Assistant systems integrated with open-source and proprietary LLMs, utilizing local GPU-accelerated models and Kubernetes for efficient container orchestration.
- Built multi-agent workflows using LangChain and LangGraph to automate complex reasoning and task execution pipelines.
- Implemented GraphRAG to enhance LLM knowledge retrieval and contextual accuracy for advanced AI Assistant capabilities.

- Developed a POC OCR pipeline to extract insights from unstructured data (PDFs, images), including fine-tuning OCR models for Thai language to improve text recognition accuracy.
- Conducted comprehensive AI model performance benchmarking to provide data-driven recommendations for technology procurement.
- Deployed and managed AI systems on Amazon Bedrock, enabling scalable production-ready LLM applications on cloud infrastructure.
- Managed customer API traffic via Kong Konnect API Gateway and delivered API services for a ticketing system built with Golang.

Data Engineer | AIS

Jan 2024 – Oct 2024

- Provisioned cloud infrastructure using Terraform and analyzed large-scale trajectory, footfall, and geolocation data on Databricks to uncover customer behavior insights.

Data Engineer | BTS Group Holdings (BTSG)

May 2020 – May 2023

Began as full-time in final semester of university

- Built data ingestion pipelines into the data platform, enabling reliable data flow from multiple sources for downstream analytics and reporting.
- Contributed to migrating data infrastructure from on-premise to AWS, ensuring seamless data transition and improved scalability.
- Contributed to a Credit Scoring project — performing EDA and customer segmentation, and building ML models (XGBoost) to predict customer default risk.
- Built interactive Tableau monitoring dashboards with automated reporting to surface insights for business stakeholders.
- Delivered a CDP pipeline implementation enabling personalized, real-time marketing capabilities across customer touchpoints.

Intern – Data Engineer | Yip In Tsoi

Jun 2019 – Nov 2019

- Implemented ETL pipelines using Informatica PowerCenter to process and transform retail business datasets for downstream reporting and analytics.

EDUCATION

Bachelor of Science in Applied Mathematics *(First Class Honors)*

King Mongkut's Institute of Technology Ladkrabang | 2017 – 2020

Relevant Coursework: Probability & Statistics, Machine Learning, Optimization, Algorithms, Numerical Methods, Computer Programming