



Ittipon Bangudsareh

Associate Director - Data Platform (Architecture & Solution)

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Professional Summary

Experienced Data Platform Architect & Engineering Leader with a proven track record in designing large-scale data platforms, real-time streaming systems, decision engines, and end-to-end data pipelines across AWS, GCP, Azure, and on-premise environments. Strong background in data engineering, backend development, NLP, speech processing, and microservice architecture. Currently leading the Data Platform (Architecture & Solution) team at Infinitas by Krungthai, responsible for platform modernization, cross-region data integration, high-performance streaming, and enterprise-scale pipeline automation.

Core Competencies

Programming

- Dart/Flutter
- Python (FastAPI, FastStream, Django, Robyn)
- Shell Script
- SQL
- Regular Expression
- automation scripting

Cloud Platforms

- AWS: Amplify, Athena, CloudFront, DynamoDB, ECS/Fargate, ECR, EFS, ElastiCache, EventBridge, Glue, Kinesis, Lambda, RDS, Route53, Redshift, S3, Secret Manager
- GCP: BigQuery, Cloud Run/Job, Datastream, Dataflow, Dataproc, Composer, Firestore, Pub/Sub, Compute Engine, Vertex AI
- Azure: Databricks, Data Factory, Event Hubs, Functions, Storage, Stream Analytics
- Huawei Cloud: CCE, OBS

Machine Learning

- NLP (N-gram, Thai tokenization)
- Gaussian Mixture Model, EM Algorithm, K-Means, Neural Network
- Speech processing, Voice Activity Detection, Speaker Verification

Work Experience

Infinitas by Krungthai — Associate Director (Data Platform) | May 2023 – Present

Key Achievements & Responsibilities

- Lead Data Platform Architecture & Solution team responsible for end-to-end data infrastructure supporting credit risk, decision engine, and real-time analytics.
- Act as technical owner for platform design decisions across streaming, batch, microservices, and data governance.
- Collaborate closely with Data Science, Credit Risk, Product, and Infrastructure teams to translate business requirements into scalable technical solutions.
- Drive platform roadmap, technical standards, and best practices across multiple teams.

- Designed and implemented a multi-cloud / hybrid Data Platform supporting AWS, GCP, Huawei Cloud, and on-premise environments.
- Architected event-driven and streaming-first architecture to support real-time data ingestion and aggregation for downstream decision services.
- Designed platform components with focus on scalability, fault tolerance, and cost optimization.
- Designed and developed enterprise services such as DCM (GCP) and NCB (HWC) for the Credit Risk team.
- Architected data pipelines for partner x Krungthai integrations.
- Built centralized notification service for the Data Platform.
- Enhanced log streaming pipelines with auto-scaling and optimization.
- Maintained and enhanced legacy systems for credit risk.
- Solved cross-region data transfer issues between the US and Singapore (latency and cost optimization).

Ascend — Senior Data Scientist | 2021 - 2022

- Converted complex SQL logic into optimized Python pipelines for the Collection Strategy system
- Modernized legacy desktop-based programs (student loan, income tuning from bank statements) to web-based services
- Built centralized documentation logging system
- Developed Streamlit automation dashboards for production monitoring
- Created Airflow automation jobs (a-score, b-score, collection, robots, etc.)
- Designed and developed Paynext Extra (v2) as part of digital loan Decision Engine
- Improved NCB Transform on-the-fly API
- Mentor & code reviewer

Conicle - Senior Backend Developer | 2020 - 2021

- Code review & engineering quality governance
- Develop new platform features and optimize existing services
- Build automated pipelines using Airflow
- Implement analytics dashboard using Apache Superset
- Provide additional services such as Data Studio integrations

Krungsri Bank — Stream Lead (AI/ML) | 2019 - 2020

- Manage Cloudera Data Science Workbench Platform
- Analyze IVR and chatbot data for customer behavior insights
- Build Multi-Text Classification System for call center support
- Develop data pipelines for Bella Chatbot
- Automate reporting for analytics use cases

Omniscien Technologies — Programmer Analyst / Data Engineer (ML) | 2016 – 2019

- Build tools/workflows for large-scale text processing and data preparation
- Develop automation systems for corpus preparation and MT training
- Train and evaluate Machine Translation engines
- Implement tools using Java, NodeJS, PHP, Python, R, Regex, Shell

Freelance Projects

- PEA Hatyai - Flutter Developer (Innovation Day 1st Runner-Up, 2021)
- PEA Hatyai - Report Automation (2020)

- PEA Pattani - Android Developer (2019)
- KMUTT - Teacher Assistant (Signal Processing)

Education

Master of Engineering, Control System & Instrumentation Engineering

King Mongkut's University of Technology Thonburi (KMUTT) — GPA 3.52

Thesis: *Thai Speaker Verification in Noisy Environments using Automatic Speaker Model Selection*

Bachelor of Electrical Engineering

Rajamangala University of Technology Srivijaya — GPA 2.93

Senior Project: *Electrical Device Control via Thai Speech Recognition*

Certificates

- Google Cloud Certified - Professional Data Engineer
(https://www.credly.com/badges/fff3d3b0-6e21-41ac-8e3c-68fc091d62b7/public_url)
- [PCEP-30-01] PCEP - Certified Entry-Level Python Programmer
- "A Study on Thai Speaker Verification System in Noisy Environments using an Automatic Speaker Model Selection", in 4th International Conference on Sciences, Technology and Social Sciences (4th ICSTSS-31), 28-29 October 2017, Hotel Grand Pacific Singapore

Interests

- App Development
- Jogging
- Guitar