

# Orapin Anonthanasap

## Data & AI Engineer · ex-Microsoft Azure Data & AI Specialist · Microsoft Certified Trainer

Azure Data & AI · Generative AI · Databricks · Microsoft Fabric · ex-ExxonMobil · 9× Azure Certified

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### Professional Profile

Azure Data & AI Engineer at Sydney Water and former Enterprise Azure Data & AI Specialist at Microsoft, combining hands-on engineering depth with customer-facing solution architecture across enterprise Data, AI, Analytics, and Generative AI. I design and deliver scalable data platforms, ELT pipelines, and production-grade AI — Azure Databricks, Delta Lake, Microsoft Fabric, and Databricks Mosaic AI — including RAG, multi-agent orchestration, fine-tuned LLM workflows, Vector Search, Unity Catalog governance, and Genie Space / Text-to-SQL. Two M.Sc. degrees in Computer Science; Microsoft Certified Trainer; Microsoft Global Hackathon 2023 winner; holder of 9 Microsoft certifications.

### Key Skills

**Azure & Cloud:** Azure OpenAI, Microsoft Fabric, Azure AI Foundry, Azure ML, Synapse Analytics, Cognitive Services, Data Factory, Data Lake, Power BI, AWS

**Databricks (Primary):** Lakehouse, Mosaic AI (Foundation Model APIs, fine-tuning, Model Serving, Agent Framework), Genie Space, Unity Catalog, Vector Search, Delta Lake, MLflow, Spark/PySpark, DBSQL, Asset Bundles

**Generative AI & LLM:** RAG, multi-agent systems, AI orchestration, prompt engineering, OpenAI, Anthropic Claude, Google Gemini, Typhoon, LangChain, MCP + OAuth 2.0

**ML / MLOps & Data:** Azure ML, TensorFlow, PyTorch, full MLOps lifecycle, Docker, Azure DevOps, CI/CD · SAP HANA → Snowflake on Azure, data modelling, migration

**App stack & languages:** Python, SQL/PL-SQL · Next.js 15, Vercel AI SDK, Supabase (pgvector), FastAPI, Cloudflare · Thai (native), English (full professional), Japanese (elementary)

### Professional Experience

#### Sydney Water — Azure Data & AI Engineer

May 2025 – Present

SYDNEY, AUSTRALIA

- Owned the end-to-end production rollout of an AI Planning Assistant (RAG) on Databricks — Vector Search, Mosaic AI Foundation Model APIs, Unity Catalog governance & lineage, and an MLflow evaluation harness.
- Pioneered Databricks–Microsoft GenAI interoperability: a first-of-its-kind prototype linking Microsoft Copilot Studio with Databricks Genie via MCP + OAuth 2.0, enabling Text-to-SQL access to the Lakehouse through the Copilot UX.
- Built production multi-agent AI on the Mosaic AI Agent Framework — tool calling, agent-to-agent handoffs, stateful conversation, and observability — automating multi-step business workflows.
- Designed scalable data architectures, ELT pipelines, and governance frameworks enabling real-time, enterprise-wide insights.

#### Microsoft — Enterprise Azure Data & AI Specialist

May 2022 – Dec 2024

SYDNEY, AUSTRALIA

- Customer-facing Data & AI solution architecture across Azure OpenAI, Fabric, Databricks, Synapse, ML, and Cognitive Services — for enterprise customers in Energy, Banking, Government, Tourism, Retail, Manufacturing, Transport & Aviation.
- Led an Azure OpenAI + Cognitive Search (RAG) integration into a tourism mobile app; delivered predictive load and renewable-energy forecasting (Azure ML) for a major utility; built a Microsoft Fabric data warehouse for energy companies.
- Built Data Platform, Analytics & AI roadmaps that drove customer Azure adoption and consumption growth.

#### ExxonMobil — Machine Learning Engineer

Feb 2022 – Apr 2022

BANGKOK, THAILAND

- Built and maintained production-grade ML across the full MLOps lifecycle on Azure ML and Databricks; scaled model serving with Docker/Kubernetes and improved observability, traceability, and developer experience.

#### ExxonMobil — Analytics Data Design Lead / IT Tech Architect

Jan 2021 – Jan 2022

BANGKOK, THAILAND

- Technical leader for an enterprise migration from on-premises SAP HANA to Snowflake on Azure — a scalable, secure cloud data-warehouse foundation for a business-critical financial analytics platform.
- Led and grew a global scrum team of eight engineers; defined data-warehouse design principles and drove technical decision-making, code & technical reviews.

#### ExxonMobil — Analytics Solution Analyst

Jan 2019 – Dec 2020

BANGKOK, THAILAND

- Built data models, ETL, and Snowflake-on-Azure solutions; worked across SAP ECC (FICO/MM/SD) and advanced SQL diagnostics for production analytics.

EARLIER: SAP PAYROLL ANALYST, EXXONMOBIL (2016–2017) · COOPERATIVE LABORATORY RESEARCHER, TOHOKU UNIVERSITY, JAPAN (2014) · RESEARCH INTERN, TOKAI UNIVERSITY, JAPAN (2013)

## Education

### M.Sc. Computer Science — Data Science · University College Dublin, Ireland

2017 - 2018

Second-class honours, upper division (2:1). Fully funded scholarship from HRH Princess Maha Chakri Sirindhorn & UCD — awarded to only two individuals annually.

### M.Sc. by Research, Information Technology (Distinction) · KMITL, Thailand

2014 - 2015

GPA 4.00/4.00. Specialised in Natural Language Processing & Information Retrieval.

### B.Sc. Information Technology · KMITL, Thailand

2010 - 2014

GPA 3.81/4.00. Top 5% — ranked first in class for 7 of 8 semesters.

## Certifications

MCT — Microsoft Certified Trainer

AZ-305 Solutions Architect Expert

DP-700 Fabric Data Engineer

DP-203 Azure Data Engineer

DP-600 Fabric Analytics Engineer

AI-102 Azure AI Engineer

DP-100 Azure Data Scientist

AI-900 · DP-900 · AZ-900

Databricks: Generative AI

Databricks Azure CSA

Anthropic: Claude 101

AWS Cloud Practitioner

dbt Fundamentals

SQL (Advanced) — HackerRank

## Awards

- **1st Place** — Chatswood AI for Real-World Impact Hackathon, 2026 (CatWalk)
- Microsoft Global Hackathon Award Winner, 2023 (ANZ top-6)
- HRH Princess Sirindhorn Scholarship, UCD, 2017–2018
- Best Paper Award — ICITEE 2015
- Fully Funded JASSO Scholarship (grade AA), 2014

## Selected Publications

**2017** — Learning and Immediate Retention of Japanese Vocabulary Using Generated Mnemonic Keywords · *SNPD 2017, IEEE/ACIS, Kanazawa, Japan*

**2015** — Automated English Mnemonic Keyword Suggestion for Learning Japanese Vocabulary · *ICITEE 2015, Chiang Mai — Best Paper Award*

**2015** — iMnem: Interactive Mnemonic Word Suggestion Using Phonetic Algorithms · *ISAROB 2015, Beppu, Japan*

**2014** — Mnemonic-Based Interactive Interface for Second-Language Vocabulary Learning · *HIS 2014, Kyoto, Japan*

Full publication list (6) available on request.