

Orapin A.

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

- Design and deliver production-grade Data & AI solutions on Azure Databricks — scalable data architectures, ELT pipelines, and governance frameworks for enterprise-wide insights.
- Build production Generative AI on the modern lakehouse — RAG, multi-agent orchestration, and LLM workflows — with governance, evaluation, and observability best practices.
- Partner with business and engineering teams to embed Data & AI capabilities into day-to-day operational workflows.

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). **100% fully funded** scholarship from HRH Princess Maha Chakri Sirindhorn & UCD — full tuition plus a living stipend, 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 (100% funded), 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.