ESWAR RAJ RAJENDRAN

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PROFESSIONAL SUMMARY

IT professional with 7+ years of experience in application development, solution architecture, data migration, MLOps, and Generative AI. Skilled in designing and deploying scalable cloud systems and operationalizing ML models. Recent work includes hands-on experience with Agentic AI and LLM-based applications. Currently pursuing MTech in Enterprise Business Analytics at NUS ISS to deepen expertise in data science and AI engineering.

SKILLS

- **Programming & Data:** Python, R, SQL, PySpark
- **Machine Learning & AI:** Transformer-based architectures (BERT, GPT, T5), Foundation Models, LLM Fine-tuning, Reinforcement Learning (RLHF), Time Series Forecasting (Prophet, E-GARCH, DeepAR), Deep Learning (CNN, RNN, LSTM, GRU), XGBoost, Self-supervised Learning, Ensemble Methods, AutoML
- **MLOps & Deployment:** MLflow, Docker, Azure ML, Vertex AI, SageMaker
- **Generative & Agentic AI:** LLMs, Prompt Engineering, RAG, Conversational AI
- **Data Engineering:** Kafka, Dataflow, Databricks, Azure Data Factory, AWS Glue, AWS EMR
- **Visualization & Analytics:** Power BI, Looker Studio, Tableau, Excel
- **Databases & Cloud:** Azure SQL, Oracle SQL, Snowflake, BigQuery, Big Table, AWS, Azure, GCP
- **Tools & Collaboration:** Git, Agile, JIRA

WORK EXPERIENCE

Associate Solution Architect   **Oct 2023 - Aug 2024**
Synapxe Pte Ltd
- Architected and delivered an end-to-end ML pipeline on GCP for clinical analytics, leveraging Pub/Sub, Dataflow, BigQuery, Vertex AI, CloudRun and Looker Studio to enable scalable model training, deployment, and monitoring in a healthcare environment.
- Designed CI/CD workflows using Cloud Build and Vertex Pipelines for automated model versioning, testing, and drift monitoring, ensuring reproducibility and operational resilience across the ML lifecycle.
- Developed a semantic terminology service prototype using embedding models and Vertex AI, translating clinical domain needs into intelligent search capabilities and aligning AI initiatives with business outcomes.

Consultant   **Sep 2022 - Sep 2023**
Avanade Asia Pte Ltd - Client: IRAS
- Collaborated with cross-functional teams and lead a team of 4 to perform real-time data streaming using Apache Kafka, enabling seamless communication between micro-services and scalable data ingestion across distributed systems, with integration to Azure Data Lake for optimized storage.
- Developed micro-services using .NET to interact with SQL databases for data extraction and transformation, ensuring efficient data flow for analytics and reporting.

Consultant   **Feb 2022 - Aug 2022**
Wealth Dynamix
- Collaborated with business stakeholders in the wealth management domain to gather and analyze data requirements across the full client lifecycle, from prospecting to relationship management.

- Designed data models and built automated data pipelines to support client lifecycle management (CLM) analytics and reporting needs.
- Delivered insights through data-driven workflows that supported onboarding optimization, compliance monitoring, and personalized client engagement strategies.

Senior Analyst   **Mar 2017 - Jan 2022**
Avanade Asia Pte Ltd - Client: GIC
- Spearheaded end-to-end data migration strategy, transitioning client GIC Singapore's legacy application Oracle database to Azure SQL.
- Built comprehensive ETL pipelines using Azure SQL, ensuring seamless data cleaning transformation using SQL and python scripts.

TECHNICAL SKILLS AND PROFESSIONAL CERTIFICATIONS

- **Singapore Computer Society - AWS Generative AI Program**
  - Gained expertise in Generative AI, including **Planning Generative AI Projects**, **Prompt Engineering, Responsible AI Practices** and **Generative AI using AWS**
- AWS Solution Architect Professional
- Microsoft Certified Azure DevOps Engineer Expert
- Microsoft Certified Azure AI Engineer Associate

EDUCATION

National University of Singapore   **Aug 2024 - Aug 2025**
Master of Technology in Enterprise Business Analytics

National University of Singapore   **Feb 2016 - Mar 2017**
Graduate Diploma in System Analysis

Anna University   **Aug 2010 - May 2014**
Bachelor of Engineering