

Phuong Duy Nguyen (Paul)

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SKILLS

Data Engineering Tools: Python (Pandas, Numpy, scikit learn, Keras, Flask REST API, etc.), Spark, Airflow, Scala, SQL

Database and Cloud: AWS, GCP, Azure, SQL Server (T-SQL, SSIS, SSAS and SSRS), MySQL, DBT Cloud

Data Analysis and Data Visualisation Tools: Alteryx, Tableau, Power BI, SQL, SAS, Excel Macro (VBA), MS Access

Others: SAP, Salesforce, Snowflake, Databricks, Jira, Terraform, Confluence, Github, Gitlab, MYOB, XERO, PowerApps, SharePoint

Languages: Vietnamese (native) and English

Transferable Skills:

- Strong quantitative, analytical and problem-solving skills.
- Excellent attention to detail ensuring data accuracy and integrity.
- Eagerness to learn and continuously develop new technical skills and industry knowledge.
- Focused on teamwork and building collaborative relationships.
- Highly organised, with the ability to manage multiple projects, and adapt to shifting priorities.
- Thrive in fast-paced, dynamic environments and work well under high-pressure situations.
- Quickly adapt to new technologies, tools and processes.

WORK EXPERIENCE

Jung Talents

Sydney

ICT Business Analyst

Feb 2024 – Present

- Collaborated with other stakeholders to understand requirements, design solutions, and contributed to the overall design and architecture of AI-powered applications.
- Analysed existing business processes and systems to identify areas for improvement and integration of new technologies.
- Worked with other software engineers to ensure seamless integration of new systems or enhancements into existing technology infrastructure.
- Developed test plans and test cases to ensure quality and reliability of new processes and systems.
- Developed detailed business cases and system documentation to support the strategic direction of IT projects.
- Built dashboards, reporting and visualisations using various tools such as SAS visual analytics and Power BI to provide insights and make recommendations.
- Imported data from a variety of sources such as Databases, APIs, streaming data feeds.
- Implemented Apache Airflow via Amazon MWAA to orchestrate data migration and optimise ETL workflows to significantly improve data processing efficiency and reduce manual processing using Spark and Hadoop ecosystems.
- Employed Pub/Sub model to decouple services and balance workloads.
- Utilised AWS Glue to execute the data transformation in ETL pipelines using SQL to reduce time spent for ETL documentation and ensuring data validation.
- Leveraged Apache Spark for real-time data streaming and analytics.
- Ensured data engineering solutions are compliant with standard security practices and regulatory requirements.
- Developed data protection measures and disaster recovery solutions.
- Used Terraform and version control in Github Action to automate infrastructure scaling and management.
- Set up monitoring in AWS CloudWatch to track system performance, identify and resolve issues, and ensure efficient data processing.

KPMG

Data Engineer

Sydney

Nov 2023 – Feb 2024

- Collaborated with cross-functional teams and other stakeholders such as product manager and business analysts to gather requirements for data model development.
- Utilised Azure Data Factory to gather data from multiple resources and created associated storage containers.
- Set up Azure Data Factory Resource and Synapse Analytics workspace to manage and store data in blob storage.
- Built external table that references dirstaging directory for staging payroll data and developed datasets for data transformation and aggregation.
- Developed code-based ETL/ELT data pipeline with performance optimised data modelling to reduce manual data processing time.
- Prepared datasets for payroll file in Azure Data Lake Storage (ADLS) and created data flow to load payroll data into SQL Database table.
- Deployed pipelines with Synapse Analytics via CETAS to ensure efficient data management and integration.
- Processed and analysed Bigdata such as data formatting, wrangling, data preparation, denormalization of data for calculations and reporting.
- Enabled ML & AI to work with image processing, video files, etc.
- Create Debug Workflow and batch macro to test and generate output by using Alteryx.
- Utilised Azure Monitor to keep track and ensure data processes work smoothly and accurately.
- Investigated and validated data against legislative requirements and compliance standards.
- Implemented automated triggers for Power BI and real-time streaming solutions using Azure Stream Analytics to enable processing and analysis of incoming data.
- Developed deep and interactive visualisation using Power BI to support timely decision-making.
- Maintained thorough and up-to-date documentation of the solutions, processes, configurations and the best practices related to cloud and data engineering.

EDUCATION

TORRENS UNIVERSITY AUSTRALIA

Bachelor of Software Engineering

(Specialisation in Artificial Intelligence)

Sydney

Jul 2023 – Present

- **Design and Creative Technology Merit Scholarship**
- **High Distinction:** Concepts in Artificial Intelligence, Mathematics 1
- **Distinction:** Introduction to Software Engineering, Introduction to Cloud Computing

AUSTRALIAN COLLEGE OF BUSINESS AND TRAINING

Certificate IV in Accounting & Bookkeeping

Sydney

June 2023 - Feb 2024

CERTIFICATES

- Microsoft Certified: Fabric Analytics Engineer Associate
- Microsoft Certified: Azure Data Engineer Associate
- AWS Certified Data Engineer Associate

AWARDS AND ACHIEVEMENTS

- Design and Creative Technology Merit Scholarship
- Certificate of Merit in the contest of Computer Knowledge & Information Technology Skill (Youth Informatics Contest – Centre for Vietnam Youth Talents, Science and Technology)
- Certificate of Academic Excellence for outstanding performance in High school
- High School Vocational Certificate in Informatics