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.
- Ensured data engineering solutions are compliant with standard security practices and regulatory requirements.
- Implemented 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.
- Leveraged Apache Spark for real-time data streaming and analytics.

KPMG   Sydney
Data Engineer   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   Sydney
Bachelor of Software Engineering   Jul 2023 – Present
(Specialisation in Artificial Intelligence)

- **University Excellence Scholarship**
- **High Distinction:** Concepts in Artificial Intelligence, Mathematics 1
- **Distinction:** Introduction to Software Engineering, Introduction to Cloud Computing

AUSTRALIAN COLLEGE OF BUSINESS AND TRAINING   Sydney
Certificate IV in Accounting & Bookkeeping   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

- University Excellence Scholarships
- 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