

Edward Nguyen

Melbourne, Australia

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Personal Profile

Highly driven and dedicated data engineering with collaborative method, strong problem-solving, continuous learning, continuous improvement, analytical, communication and collaboration skills and expertise in ETL pipelines, and database management, data integration, Devops (Jenkins, Git) and cloud computing such as AWS, Azure, GCP. Proficient in automation pipelines, data architecture, data processing, data engineering, data modeling and programming skills in SQL, python. Proven success in developing data-driven and AI strategic, roadmap and presenting executive management with actionable and useful insights.

Work Experience

PTE Master

Sydney, Australia

Data Engineer

January 2023-Current

- Implemented the design of data warehouse schema and automated ELT/ ETL pipelines using Python (Apache Airflow) including orchestration, migration and loading data to Snowflake from data lake S3, achieving a high time saving reduction in manual data processing time for key projects.
- Utilized DBT CLI to transform data to meet up business requirement and data integrity using SQL, Jinja template and Macro, obtaining time saving in creating document, designing schema and data models.
- Optimized SQL queries and built algorithms and data models from Snowflake by implementing checking cluster and rebuilding micro partition, troubleshooting ad-hoc query and technical issues and delivering a 20% performance tuning boost and 100% unit testing and experiments success rate.
- Implemented cloud infrastructure as code by Docker and Terraform or CloudFormation for data ecosystem on Azure and AWS, ensuring optimal uptime and support for best practices and multiple commercial applications.
- Implementing end to end real time streaming data capable of handling scalability of data daily by using S3, EventBridge, Kinesis and Snowpipe enabling real-time analytics and restful API for SaaS(Software as a service) applications and backend services.
- Established CI/CD workflows with Github Action and maintaining version control for source code, streamlining deployments and enhancing collaboration on commercial projects.
- Set up monitoring in Snowflake history and used AWS CloudWatch to keep track of how the systems are running and to quickly spot and fix any problems, making sure data processes work smoothly
- Technical Skills:** Python, Docker, Azure, SQL Server, Airflow, Kafka, Snowflake, DBT, Github, Agile.
- Soft Skills:** Teamwork, Time Management, Communication, Presentation skills, Research.

Jung Talents

Melbourne, Australia

Data Engineer

June 2022-December 2022

- Implemented Apache Airflow through Cloud Composer to orchestrate, migrate data and optimize ETL workflows, achieving better saving improvement in time manual processing in automated data processing efficiency within Spark and Hadoop ecosystems.
- Utilized Dbt for data transformation within BigQuery, leading to enhanced query performance, supporting documentation and facilitating advanced data analytics, business intelligence and scalable applications like using Looker.
- Strengthened data security by configuring IAM roles and implementing encryption with Cloud KMS, exceeding compliance and safeguarding sensitive information.
- Automated cloud infrastructure provisioning using Terraform, complemented by CI/CD pipelines and version control in Github Action for efficient deployment cycles.
- Developed real-time data streaming solutions with Cloud Pub/Sub, improving data availability and supporting prompt analytical insights.
- Technical Skills:** Python, Dataproc, Dataflow, BigQuery, Looker, Spanner, Composer, Cloud Run, Compute Engine, Kubernetes, Docker, IAM Admin, GitHub.
- Soft Skills:** Teamwork, Time Management, Exceptional Communication, Advanced Presentation Skills.

Jung Talents

Melbourne, Australia

Data Analyst

January 2022-June 2022

- Acquiring and ingesting data from AWS S3 or AWS Redshift by using lambda, setting the foundation for efficient Power BI analytics in key commercial accounts.
- Using Python to cleanse data, achieving an optimal accuracy rate in business-critical Power BI dashboards.
- Collaborating to cross-functional teams and other stakeholders such as product manager, QA tester and data engineers to support the analysis, SQL query optimization and design timely Power BI reports, exceeding stakeholder expectations, collaboration and democratizing data across the organization.
- Automating data processing with Pandas, enhancing productivity by 30% and enabling real-time Power BI insights.
- Implementing automated triggers for Power BI, reducing manual intervention by 80% and contributing to a 20% growth in development of production and data-driven decision-making.
- Technical Skills:** Python, Power BI, SQL.
- Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Viet Nam Payment Solution Joint Stock Company

Hanoi, Vietnam

Operation Analyst

October 2019-October 2021

- Leading cross-functional teams to optimize e-invoice systems for major banks and SMEs, achieving a 20% increase in overall system efficiency through data-driven insights.
- Mastering SQL relational database and Excel to conduct advanced data analytics, informing real-time decision-making and actionable business strategies.
- Pioneering innovative process improvements using A/B tests and predictive models, resulting in a 15% reduction in operational risks.
- Excelling in data storytelling by synthesizing complex metrics into compelling presentations that have influenced key business decisions for high-value clients.
- **Technical Skills:** Word, Excel, Powerpoint, Spreadsheet, SQL.
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking, Teamwork, Presentation skills, Decision making.

Skills

Cloud	AWS (Amazon Web services), GCP (Google Cloud Platform), Azure, DBT Cloud, Snowflake, Terraform
Programming	Python (Pandas, PyTorch, NumPy, scikit learn, Keras, Flask REST API, etc.), R(ggplot2, Shiny), Scala, JavaScript, SQL.
Miscellaneous	Linux, Shell scripting(Bash/Zsh), Power BI, SAS, SQL Server (T-SQL, SSIS, SSAS and SSRS), NoSQL, DBT, Snowflake, Spark, Airflow, Confluence, Github, Gitlab, databricks.
Soft Skills	Time Management, Teamwork, Problem solving, Documentation, Engaging Presentation, Decision making, interpersonal skills.

Education

Monash University

Melbourne, Victoria

MSc in Data Science

July 2021-July 2023

- **Courses:** Python Programming for Data Science, Statistical data modelling, Introduction to computer science, software engineering, Machine Learning, big data processing, Applied data analysis.

Academy of Policy and Development

Hanoi, Vietnam

Bachelor of Arts in Banking and Finance

September 2015-September 2019

- Graduated with Distinction.

Achievements

2023	PASS , Google Tensorflow Developer	<i>Melbourne</i>
2022	Top 5 , Consciousness Metre Challenge	<i>Melbourne</i>
2022	Top 3 , Monash Datathon	<i>Melbourne</i>
2020	PASS , Applied data Scientist of World Quant University Bootcamp	<i>Melbourne</i>
2020	PASS , Data science Bootcamp	<i>Melbourne</i>
2020	Top 2 , Meta Developer Circles Program in Hanoi - AI chatbot nutrition solution products	<i>Hanoi</i>