**Nho Thanh Le**

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## Profile

## A dedicated individual looking for opportunities in data science, with a strong foundation in SQL, database management, and data analytics.

## Experienced in building efficient data pipelines, optimizing queries, and developing data-driven solutions using PostgreSQL, Python, and Tableau. Having knowledge in ETL processes with Pentaho (PDI), database design, and performance tuning.

Communicates technical ideas in a clear and simple way. Curious and open-minded, enjoys learning, adapting to new environments, and contributing to team efforts through thoughtful feedback.

## Education

**Bachelor of Science in Information Technology | Data Analytics Major**  
University of Technology Sydney (Feb 2019– Nov 2022, Graduated with Distinction)

* Core competencies: SQL, Tableau, Pandas, HTML, CSS, Swift.

**Master of Information Technology & Master of IT Management | Data Management & Analytics Major**  
The University of Sydney (Jul 2023– Present)

* Improved skills in PostgreSQL, Tableau, Pandas, Seaborn, Matplotlib, Web Applications, LaTeX, Pentaho Data Integration (PDI)

**Relevant Certifications & Online Courses**

* **SQL Fundamentals Track** (Datacamp) – Introduction & Intermediate SQL with PostgreSQL (Credential: 0c2e85719aff01ecc77f176bd7b9c5105261fe6c)
* **Building a REST API with Python and Flask** (Coursera) (Credential: AXF9XBKP48UG)

## Project Experience

**Mock website for Coffee Shop Management System**

* Built an interactive web application for coffee shop inventory and sales tracking.
* Integrated **PostgreSQL, Flask, HTML, CSS, and VanillaJS** for dynamic data handling.
* Applied **SQL queries** to add information to the Menu, add orders to cart or modify menu items with queries to get information from the database.
* Collaborated in a 3-member team, responsible for designing database schema and Flask route handling.

**Supersize the Image – AI-Powered Image Processing**

* Integrated **PostgreSQL** to store admin and user’s login information.
* Developed a **Django** web application for image enhancement and resizing.
* Application of Deep learning algorithms in super-resolution to enhance better resolution for noise and low-quality image.
* Worked in a cross-functional team of 4, modified the code inside Django backend template to integrate the model to output the super-resolution result.

**Web app to visualize the traffic and analyze the feature of Marvel Heroes**

* Utilized **NoSQL** to store and get the data from the **database.**
* Developed a full-stack website to analyze and visualize the characteristics of Marvel superheroes.
* **HTML, CSS**, **JS** for front-end development and **NodeJS** for backend development.
* Took part in a 3-person team and conducted functions of login, registration, and the administration of admin and non-admin users, while collaborating closely with the UI developer.

**Visual Analytics of Social Media Strategies – U.S. 2016 Election**

* Conducted a **data-driven analysis** of Hillary Clinton and Donald Trump’s Twitter activities during the 2016 U.S. Presidential Election.
* Developed **Python-based sentiment analysis models** using **NLTK and TextBlob** to classify tweet sentiment.
* Created **interactive Tableau visualizations**, including **time-series sentiment trends, engagement metrics, and word clouds**.
* Implemented **Natural Language Processing (NLP)** for thematic analysis of key campaign topics.
* Enhanced data interactivity with **time sliders, category filtering, and sentiment-event annotations**.

**Google Play Store Apps and Reviews – Data Analysis Project**

* Conducted a comprehensive analysis of over 10,000 Android apps across different categories on Google Play Store to derive insights for growth and user retention.
* Utilized two datasets: one containing app details (apps.csv) and the other containing user reviews with sentiment metadata (user\_reviews.csv).
* Performed **data cleaning, exploratory data analysis, and sentiment analysis** on user reviews to understand user feedback trends.
* Visualized category prevalence, app ratings, sentiment polarity, and app pricing strategies using **Python (pandas, matplotlib, seaborn).**

**Netflix Movie Duration Trends – Data Analysis Project**

* Explored the trend of average movie durations on Netflix from 2011 to 2020, showing a potential decline in duration over time.
* Loaded and structured data into Python dictionaries and pandas DataFrames to perform foundational analysis.
* Visualized duration trends using **matplotlib and seaborn**, emphasizing years with the sharpest changes.
* Applied data cleaning and manipulation techniques to extract insights from the entertainment domain.

## Work Experience

Comserve Technology LTD

Repair Technician

· Part-time 2022 - Dec 2022

* Troubleshot software issues and performed OS reinstallation
* Provided **IT support** to customers, resolving technical problems efficiently.
* Collaborated with hardware technicians and conducted basic hardware replacement.
* Advised customers in selecting **laptops and PCs** based on their needs.

## Technical Skills

* Programming & Data Analytics: SQL, Python, JavaScript, HTML
* Database & Cloud Technologies: PostgreSQL, SQL, NoSQL, AWS
* Framework: Flask, Django, Node.js
* Data visualization: Tableau, Python(Seaborn, Matplotlib)
* Version Control & Deployment: GitHub
* ETL tool: Pentaho’s Data Integration, Tableau