Luan Nguyen

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TECHNICAL SKILLS

Languages: Python, C++, SQL, R, Java, HTML/CSS, JavaScript
Developer Tools & Frameworks: Git, Docker, Jupyter, Tableau, Power BI, Django, REST API
Libraries: NumPy, PySpark, TensorFlow, Scikit-learn, Keras, Tidyverse
Database Tools: MS SQL Server, Azure Data Studio, Oracle Database, PostgreSQL, MySQL, MongoDB

EXPERIENCE

Data Advisor Co-op | *Python, MS SQL Server, Denodo, Tableau, Excel*   Jan. 2024 – May. 2024
Vancouver Coastal Healths, Medical Quality Leadership and Practice Dept.   *Vancouver, BC*

- Conduct **time-series analysis** and **A/B testing** on 5 physician quality improvement projects, identifying trends and patterns to support strategic decision-making initiatives
- Designed and implemented a data pipeline using **PyODBC** to connect with **MS SQL Server** and **Denodo**, streamlining data updates and cleaning
- Facilitated seamless data transfer to **Excel** and **Tableau**, improving data accessibility and validation efficiency by 40% across 5 physician quality improvement projects
- Conducted ad-hoc **data cleaning** and **visualization** using **pandas**, **pySpark**, and MS SQL Server to support the development of a new physician performance evaluation system, ensure data integrity and reliability for informed decision-making
- Automated workflows using Python and **Tableau API**, streamlining retrieval, encryption, and distribution of quarterly performance reports, accelerating the report cycle by 50% for more than 500 physicians across 4 departments.
- Collaborated with data scientist and data engineer in developeing predictive models for patient readmission rate, length of stay, and mortality rate, improving patient care and resource allocation

HIGHLIGHTED PROJECTS

Data Engine Pipeline | *Docker, PostgreSQL, dbt, Airflow, Git* | [Source](#)   Dec. 2023
- Created a robust data pipeline from scratch for **PostgreSQL** databases, utilizing Python's 'subprocess' module for shell command execution
- Implemented secure authentication by setting environment variables for **PostgreSQL** user credentials, enhancing data handling integrity without manual intervention
- Demonstrated proficiency in **SQL** optimization techniques, including **Common Table Expressions (CTEs)** and dynamic SQL generation with **Jinja** templating and macros in **dbt**, ensuring efficient data transformations and maintainable code
- Incorporated distributed computing structures - **Airflow**, emphasizing scalability, reliability, and resource allocation for optimized workflow management

Probabilistic Models | *TensorFlow, Probabilistic Model, Git* | [Source](#)   Aug. 2023
- Performed data visualization and ANOVA with hypothesis to identify potential trends, patterns, and significant features within the dataset
- Employed **Python** to conduct **classification models** on dataset comprising 19,000 entries and 11 features, achieving an 87% accuracy rate in classifying data points
- Developed and evaluated various **ML models** using **TensorFlow/Keras** including k-Nearest Neighbours, Naïve Bayes, Logistic Regression, Support Vector Machine, and Neural Network

Website Data Analysis | *R, Git, HTML/CSS* | [Source](#)   May 2018 – May 2020
- Implemented web scraping script based on HTML elements and performed data wrangling and visualization using **Tidyverse** packages
- Analyzed dataset, identifed patterns through hypothesis testing and regression analysis

EDUCATION/PROFESSIONAL DEVELOPMENT

BASc, Computer Science Major, Applied Statistics Minor   May 2020 – May 2025
Simon Fraser University   *Burnaby, BC*
- GPA: 3.5, Dean's Honour Roll Fall 2023
- Concentration: Machine Learning
- Relevant courseworks: Machine Learning (CMPT310), Computer Vision (CMPT361), Applied Data Science (CMPT353), Probabilistic Analysis (STAT302), Data Structures and Algorithms (CMPT307)
- Data Analytic Certificate: clean, analyze data in Alteryx Designer; visualize data in Tableau and Power BI
- Social Activities: Co-Chair SFU Canadian Cancer Society (2022-2023)

Data Structure and Algorithm Cert.   Jun. 2023 – Sep. 2023
University of California San Diego   *remote, Coursera*
- Skills: Algorithms (Greedy, Divide-and-Conquer), Dynamic Programming, Debugging, Software Testing

Extracurricular, Hobby & Interests

Photographer   Since 2021

Freelance

- Explore and appreciate the beauty of Vancouver through photography, capturing the essence of the city's diverse culture and landscapes.
- Explore the artistic side of personal expression through photography, experimenting with different styles and techniques to create unique and captivating images.
- Portfolio: @tailuan_nguyen

Customer Experience Specialist   Jul. 2022 – Jan. 2023

TD Bank   *Vancouver, BC*

- **Relevant skills: communication, problem-solving, collaboration, task prioritization, and time management**
- Fostered professional relationships and collaborated closely with team members to fulfill the unique needs of each client, resulting in a remarkable 200% increase in sale revenue during Q4-2022.
- Analyzed client's transaction database to prevent money laundering and cheque kiting fraud.
- Examined client's spending and saving habits by analyzing credit card usage over the course of a year, provided personalized recommendations for the most suitable products.

Cook Lead   Jun. 2021 – Jun. 2022

Tap & Barrel   *Vancouver, BC*

- **Relevant skills: leadership, teamwork, task prioritization, resource management, and problem-solving**
- Managed a team of 5 cooks, delegated tasks, and ensured the kitchen operated smoothly during peak hours.
- Self-taught cooking techniques and recipes, experimented with new ingredients and flavors to create unique dishes.
- Explore different culture through food, learned to cook traditional dishes from various countries.