Luan Nguyen

778-668-3009 | luan_nguyen_3@sfu.ca | Portfolio | LinkedIn | GitHub |

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, TensorFlow, Scikit-learn, Keras
Database Tools: MS SQL Server, Azure Data Studio, Oracle Database, PostgreSQL, MySQL, MongoDB

Experience

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

- Developed and optimize personal data infrastructure using **Python**, **MS SQL**, and **Excel** within enterprise data warehouse environment, enhance data accessibility and validation efficiency by 40% while fostering effective data communication.
- Performed data wrangling and manipulation using **Python** and **MS SQL** across diverse quality improvement projects, ensuring the **integrity** and reliability of data for informed decision-making.
- Automated operational workflows through implementation of automation process using **Python** and **Tableau API**, facilitating the retrieval and dissemination of physician quarterly performance report, resulting in a 50% acceleration of the report cycle.
- Created dynamic and insightful data visualizations using **Tableau** and **Python**, illustrating team-based performance metrics to facilitate clear insights and support strategic decision-making initiatives.

Highlighted Projects

Data Engine Pipeline | *Docker, PostgreSQL, dbt, Airflow* | Source Dec. 2023 – Current

- 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.
- Incorportated distributed computing structures - **Airflow**, emphasizing scalability, reliability, and resource allocation for optimized workflow management.

Probabilistic Models | *TensorFlow, Probabilistic Model, Git* | Source Aug. 2023 – Current

- 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 and performed data wrangling using **RStudio**.
- Visualized and analyzed dataset, identifed patterns through hypothesis testing and regression analysis.

Other Project | *Java, Python, CLI, Git, Linux, Refactoring, Design Patterns* | Source Jan. 2022 – Current

- Developed multiple game engines such as 2D shooting game and chess engine with UI using **Java** with **design patterns** such as Singleton, Iterator.
- Developed **CLI** applications such as Weather Now, Time It, Hello chatbot using **Python** and **Ubuntu CLI**.

Education/Professional Development

Bachelor of Applied Science in Computer Science, Minor in Statistics May 2020 – May 2025
Simon Fraser University *Burnaby, BC*

- GPA: 3.5, Dean's Honour Roll Fall 2023
- Concentration: Artificial Intelligence
- Relevant courseworks: Data Structures and Algorithms, Data Science, Artificial Intelligence, Probabilistic Analysis
- 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*

- Algorithms (Greedy, Divide-and-Conquer), Dynamic Programming, Debugging, Software Testing