

# Luan Nguyen

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## TECHNICAL SKILLS

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**Languages:** Python, C++, SQL, NoSQL, PostgreSQL, R, Java, HTML/CSS, JavaScript

**Developer Tools:** Git, Docker, Jupyter, Tableau, Power BI

**Frameworks:** Django, REST API, JUnit

**Libraries:** NumPy, TensorFlow, Scikit-learn, Keras

## EXPERIENCE

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**Data Analyst** | *Python, MS SQL, Tableau, Excel*

Jan. 2024 – May. 2024

*Vancouver Coastal Health @ Physician Quality Improvement Dept.*

*Vancouver, BC*

- Perform **data wrangling** and **manipulation tasks** using **Python** and **MS SQL** across diverse quality improvement projects, ensuring the **integrity** and **reliability** of data for informed decision-making.
- Develop 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.
- Streamline **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.
- Create dynamic and insightful **data visualizations** using **Tableau** and **Python**, illustrating team-based performance metrics to facilitate clear insights and support strategic **decision-making initiatives**.

## PROJECTS

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**Data Engine Pipeline** | *Docker, PostgreSQL, dbt, Airflow* | [Source](#)

Dec. 2023 – Current

- Create 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 – 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, identified patterns through **hypothesis testing** and **regression analysis**.

**Enterprise Database System** | *MySQL, HTML/CSS, PHP* | [Source](#)

Jan. 2022 – Apr. 2022

- Designed a Database Management System (**DBMS**) with **EER Model** and **Relational Schema**.

**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

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**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 coursework: 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