Luan Nguyen

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

TECHNICAL SKILLS

Languages: R, Python, R, SQL, noSQL, C/C++, Java, HTML/CSS, JS
Developer Tools: Git, Docker, Jupyter, Tableau, Power BI
Frameworks: Django, REST API, JUnit
Libraries: pandas, NumPy, Matplotlib, sklearn, TensorFlow

EXPERIENCE

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

Probabilistic Models | *TensorFlow, Probabilistic Model, Git* | Source   Aug. 2023 – Present
- 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
- Implement **web scraping** script using **RStudio**, extracting 6000 data entries from Trustpilot reviews.
- Performed **data cleaning**, including **type correction**, **missing value examination**, and **frame merging**.
- **Visualized** and **analyzed** clean dataset using **RStudio**, identifed patterns and trends using **hypothesis testing** and **regression analysis**.

Enterprise Database System | *MySQL, HTML/CSS, PHP* | Source   Jan. 2022 – Apr. 2022
- Developed **DBMS** for businesses, handling attributes such as clients, staff, services, payment methods, etc.
- Designed **Enhanced ER Model** and **Relational Schema** with table definitions, constraints, and normalization.
- Extended project via website development using HTML/CSS and PHP, enabling user database management.

Chess Engine | *Java, Git, AWT* | Source   Dec. 2022 – Feb. 2023
- Developed **Java** chess engine, applying techniques such as **OOP**, **encapsulation**, **polymorphism**.
- Improved code **maintainability** and **reusability** using **builder**, **abstract factory**, and **singleton patterns**.
- Applied **event-driven** approach and Java AWT to create GUI for the engine.

EDUCATION/PROFESSIONAL DEVELOPMENT

Bachelor of Applied Science in Computer Science, Minor in Statistics   May 2022 – May 2025
Simon Fraser University   *Burnaby, BC*
- **GPA: 3.5**, **Dean's Honour Roll Fall 2023**
- Concentration: Artificial Intelligence
- Relevant courseworks: Data Science, Artificial Intelligence, Probabilistic Analysis, Data Structures and Algorithms
- Social Activities: Co-Chair SFU Canadian Cancer Society (2022-2023)

Associate of Science in Computer Science   May 2020 – May 2022
Langara College   *Vancouver, BC*

Data Analytics   Jun. 2023 – Sep. 2023
Simon Fraser University   *Burnaby, BC*
- Prepared, cleansed, transformed, and analyzed data in Alteryx Designer, visualized data in Tableau and Power BI

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