

# Luan Nguyen

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## TECHNICAL SKILLS

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

## EXPERIENCE

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**Data Analyst** | *R, Python, MS SQL* Jan. 2024 – May. 2024  
*Vancouver Coastal Health* *Vancouver, BC*

- Conduct **analysis** and **clean datasets** for various quality improvement projects, ensuring accuracy and reliability of the data used for decision-making.
- Create engaging **data visualizations** representing team-based performance metrics, enabling clear insights and facilitating **informed decision-making**.
- Assist in setting up a **data infrastructure** within an enterprise data warehouse environment, providing validation support and ensuring effective data communication.

## PROJECTS

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**Probabilistic Models** | *Python, Jupyter, TensorFlow* | [Source](#) Aug. 2023 – Present

- Successfully conducted a binary **classification model** involving a dataset of 19,020 samples and 11 attributes.
- Developed and evaluated multiple **ML models**, including **k-Nearest Neighbours**, **Naïve Bayes**, **Logistic Regression**, **Support Vector Machine**, and **Neural Network** using **TensorFlow/Keras**.
- Achieved up to 87% accuracy in classifying data points.

**Website Data Analysis** | *R, Git, HTML/CSS* | [Source](#) May 2018 – May 2020

- Used R to implement a **web scraping** script, extracting 6000 data entries from Trustpilot reviews of Apple.com.
- Performed **data cleaning**, including **type correction**, **missing value examination**, and **frame merging**.
- Visualized** and **analyzed** data to identify patterns using **regression analysis** and **hypothesis testing**.

**Enterprise Database System** | *MySQL, HTML/CSS, PHP* | [Source](#) Jan. 2022 – Apr. 2022

- Developed a **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 a 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

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**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 coursework: Data Science, Artificial Intelligence, Probabilistic Analysis, Data Structures and Algorithms
- Social Activities: Co-Chair SFU Canadian Cancer Society (2022-2023)

**Data Analytics Certificate** 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.

**Algorithmic Toolbox Certificate** Jun. 2023 – Sep. 2023  
*University of California San Diego* *Remote*

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

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