Luan Nguyen

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Technical Skills

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

Projects

Probabilistic Models | *Python, Jupyter, TensorFlow* | Source — Aug. 2023 – Present

- Successfully conducted a binary **classification model** involving 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 implemented 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**.

Chess Engine | *Java, Git, AWT* | Source — Dec. 2022 – Feb. 2023

- Developed a Java chess engine, applied 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.

Game Engine | *Java, Git* | Source — Dec. 2022 – Feb. 2023

- Build a 2D shooting game in Java using **iterative Scrum process** for regular **collaboration**, **adaptability**, **incremental results**.
- Refined game design and features through **goal-setting**, **prioritization**, and **iterative development**.
- Applied **builder**, **abstract factory**, and **singleton patterns** for improved code structure and maintainability.

Education/Professional Development

Bachelor of Applied Science in Computer Science, Minor in Statistics — Burnaby, BC
Simon Fraser University — *May 2022 – May 2025*

- Concentration: Artificial Intelligence — GPA: 3.5
- Relevant courseworks: Data Science, Artificial Intelligence, Probabilistic Analysis, Data Structures and Algorithms
- Social Activities: Logistic Co-Chair SFU Canadian Cancer Society

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

Algorithmic Toolbox Certificate — Vancouver, BC
University of California San Diego — *Jun. 2023 – Sep. 2023*

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

Data Analytics Certificate — Burnaby, BC
Simon Fraser University — *Jun. 2023 – Sep. 2023*

- Prepared, cleansed, transformed, and analyzed data in Alteryx Designer, visualized data in Tableau and Power BI.

Experience

Customer Experience Specialist — Jul. 2022 – Jan. 2023
TD Canada Trust — *Vancouver, BC*

- Enhanced problem-solving skills through active listening and understanding of banking processes.
- Gained office experience and collaboration skills using MS Team, Slack, and Zoom.
- Enhanced time management skills by prioritizing tasks and employed time-saving techniques.