TAI LUAN NGUYEN

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SKILLS

PROGRAMMING LANGUAGES: R, Python, SQL, C++, Java

TECHNOLOGIES: Git, Docker, HTML/CSS, Linux, Node JS

TOOLS: RStudio, VS Code, MySQL, Power BI, MS Teams, Excel, Word, PowerPoint

ACADEMIC/PERSONAL PROJECTS

MACHINE LEARNING FOR BINARY CLASSIFICATION – *Python – Personal Project* 🔗   *August 2023 – Current*
- 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, HTML/CSS – R for Data Science (STAT260 SFU)* 🔗   *January – April 2023*
- Implemented a **web scraping** script using R to extract 6000 data entries with various attributes from Trustpilot reviews of Apple.com.
- Conducted **data cleaning** procedures, including **data type correction**, **examination of missing values**, and **data frame merging**.
- **Analyzed collected data** through **data visualization**, identifying patterns and trends using **regression analysis** and **hypothesis testing**.

DENTAL ENTERPRISE DATABASE SYSTEM – *SQL – Database System (CPSC2221 Langara)* 🔗   *January – April 2022*
- Implemented a **complete database model** for business with different attributes such as clients, staffs, products/services, payment methods.
- Designed **Enhanced Entity Relationship Model** and **Database Relational Schema** including table definition, constraints, and normalization.
- Extended project by personally developing a website using HTML/CSS and PHP to input and modify data in database.

INNOCENT CHESS ENGINE – *Java – Personal Project* 🔗   *December 2022 - February 2023*
- Developed a chess engine from using Java, applied techniques such as **object-oriented programming (OOP)**, **encapsulation**, **polymorphism**.
- Enhanced **code maintainability** and **reusability** by applying of **design patterns**, including **builder**, **abstract factory**, and **singleton patterns**.
- Utilized **event-driven** approach, incorporated **Google's Guava library**, and **Java AWT** to create **graphical user interface (GUI)** for the engine.

SPACE MONKEY – *Java – Software Engineering (CMPT276 SFU)* 🔗   *September - December 2022*
- Developed a shooting 2D game application from the ground up using Java and implemented **iterative Scrum process**, emphasizing **regular collaboration**, **adaptability**, and **delivery of incremental results.**
- Refined the game design, features by **setting clear goals**, **prioritizing features**, and **addressing development tasks** during each iteration.
- Applied **design patterns** including **builder**, **abstract factory**, **singleton** to enhance code structure and maintainability.

EDUCATION/PROFESSIONAL DEVELOPMENT

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, MINOR STATISTICS – *Simon Fraser University*   *May 2022 – May 2025*
- Concentration: Artificial Intelligence
- Relevant coursework: Data Science, Artificial Intelligence, Probabilistic Analysis, Data Structures and Algorithms, Software Development
- GPA: 3.5/4.33

ALGORITHMIC TOOLBOX CERTIFICATION – *University of California San Diego*   *June - September 2023*
- Skills: Algorithms (Greedy, Divide-and-Conquer), Dynamic Programming, Debugging, Software Testing

DATA ANALYTICS SKILLS CAMP CERTIFICATION – *Simon Fraser University*   *June - September 2023*
- Skills: Data preparation, cleansing, transformation, and analytics in Alteryx Designer, data visualization in Tableau and Power BI

ASSOCIATE DEGREE IN COMPUTER SCIENCE – *Langara College*   *Graduated May 2022*
- Concentration: Computing Systems
- Relevant coursework: Database and SQL, Probability, Object-Oriented Programming, , Data Structures and Algorithms

EXTRACURRICULAR

LOGISTICS CO-CHAIR – *SFU Canadian Cancer Society, Burnaby BC*   *September 2022 – September 2023*
- Enhanced creativity through designing poster and brochure that draw in large audience and boost donations for the organization.
- Improved communication skills by consistently introducing team members to others and persuading people to volunteer for the organization.

CUSTOMER EXPERIENCE ASSOCIATE – *TD Canada Trust, Vancouver BC*   *July 2022 – January 2023*
- Cultivated problem-solving skills through by active listening and applying a deep understanding of banking processes in various scenarios.
- Acquired experience in an office work environment, gained collaboration skill with the usage of technologies like MS Team, Slack, Zoom.
- Enhanced time management skills by prioritizing tasks and employed time-saving techniques.