TAI LUAN NGUYEN

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SKILLS

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

TECHNOLOGIES: Git, Docker, HTML/CSS, Linux

TOOLS: VS Code, RStudio, CLI, Emacs, MySQL, Power BI, MS Teams, Excel

ACADEMIC/PERSONAL PROJECTS

MACHINE LEARNING FOR BINARY CLASSIFICATION *– Personal Project (Python)*   *August 2023 – Current*
- Successfully conducted a binary classification 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 a Neural Network using TensorFlow/Keras.
- Achieved up to 87% accuracy in classifying data points.

WEB SCRAPPING *– R for Data Science (R, HTML/CSS) | STAT260*   *January – April 2023*
- Implemented a web scraping script using R to extracted 6000 data entries with various attributes from Trustpilot reviews of Apple.com.
- Analyzed collected data, identified patterns and trends in negative reviews correlate with specific aspects of Apple, particularly high repair fee.
- Discovered several obstacles that can happen during scraping, including rate limitations, inconsistent data, UI interaction.

INNOCENT CHESS ENGINE *– Personal Project (Java)*   *December 2022 - February 2023*
- Developed a chess engine from ground up using Java, featuring an engine capable of detecting and preventing wrongful move by users.
- Implemented design pattern, including builder, abstract factory, and singleton.
- Designed graphical user interface (GUI) using the Swing and AWT framework.

SPACE MONKEY *– Software Engineering (Java) | CMPT276*   *September - December 2022*
- Developed a shooting game from the ground up using Java and applied an iterative Scrum process.
- Employed design patterns including builder pattern, abstract factory pattern, and singleton pattern.
- Designed and implemented a user interface with various game states and levels using Java AWT/Swing Designer Tools.

DENTAL ENTERPRISE DATABASE SYSTEM *– Database System (SQL) | CPSC2221*   *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. The website allows users to input and modify data in database.

EDUCATION/PROFESSIONAL DEVELOPMENT

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

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

DATA ANALYTICS SKILLS CAMP – *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*   *May 2020 – May 2022*
- Concentration: Computing Systems
- Relevant coursework: Object-Oriented Programming, Database and SQL, Data Structures and Algorithms

EXTRACURRICULAR

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.

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.