# TAI LUAN NGUYEN

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## SKILLS

**PROGRAMMING LANGUAGES**
- C/C++
- R
- Python
- Java

**TECHNOLOGIES**
- GitHub
- HTML/CSS
- Linux
- MySQL

**TOOLS**
- Visual Studio Code
- Emacs
- Microsoft Teams
- Command line interface

## ACADEMIC/PERSONAL PROJECTS

**WEB SCRAPPING** – *R for Data Science | STAT260*                    *March 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 .

**SPACE MONKEY** – *Intro to Software Engineering | CMPT276*                    *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.

**HAPPY DENTAL DATABASE SYSTEM** – *Database System | CPSC2221*                    *March 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.

**INNOCENT CHESS ENGINE** – *Personal Project*                    *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 frameworks.

## 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 consistently prioritizing tasks and employed time-saving techniques such as setting clear goal and utilizing time blocking.

**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.

## EDUCATION

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

**ASSOCIATE DEGREE IN COMPUTER SCIENCE** – *Langara College – GPA 3.0/4.0*                    *May 2020 – May 2022*
- Relevant coursework: Database and SQL, Object-Oriented Programming,

## CERTIFICATION

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

**ALGORITHMIC TOOLBOX –** *University of California San Diego*                    *September 2023*
- Algorithms: Greedy, Divide-and-Conquer, Dynamic Programming.

**SUSTAINABLE DEVELOPMENT GOALS TRAINING –** *United Nation, Sustainable Development Goals Advocates*          *January 2022*

**2019 YOUTH GOOD NEIGHBOURS AWARD –** *Associate of Neighbourhood Houses BC*                    *September 2019*
- Successfully raised $1000 for a connecting event between the people in the neighbourhood and community centres.