



Dickson Ngan

Major in Computer Science, 3rd Year

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Technical Skills

- Languages: Java, C/C++, R, Javascript, Python, SQL*
- Web: HTML, CSS
- Technical: Visual Studio, MATLAB, GitHub, Git, REST APIs, JUnit, React, Selenium, AWS, *currently learning

Technical Projects

Sorting Visualizer – HTML, CSS, JavaScript, React. May – December 2021

- A visualizer of common sorting algorithms such as Bubble Sort and Insertion Sort created React using hooks.
- Layout design done using CSS and HTML to create an intuitive, responsive, and visually-pleasing interface.

Dinosaur Game - Python, pygame, REST APIs. April - May 2021

- A from-scratch remake of Chrome's offline dinosaur game done using Python and the pygame library with additional features such as an upgrade system added on top of the base game as well as a weather system based on the current location's weather through the use of ipinfo and OpenWeather's REST API.
- Employs object-oriented programming for the various entities and lists to hold repeated entities.

Food/Recipes Logging Program - Java, JUnit, GDB, Swing, REST APIs, JSON. January – April 2020

- Logged and kept track of ingredients of varying expiration dates in real-time based on user input using an interactive GUI using Swing.
- Allowed manual and web entries of recipes using a third-party REST API, automatically parsing the received JSON string into a recipe entity viewable within the GUI.
- Employed test-driven development using JUnit for edge cases, user-input, and API parsing with 100% code coverage.

Work Experience

Junior Front-End Developer, Enightful September 2021 – Present

- Created front-end React components for loading progress, terms of service, and progress tracking for the enhancement of the user-facing web application.
- Wrote mobile-friendly and responsive email templates using HTML and CSS for notifying the end-user of any updates.
- Integrated and documented application components using Storybook to allow developers to test and iterate within an isolated environment.
- Wrote automated Selenium tests using Java to verify common paths through the application, automating tasks such as bulk course creation, as well as for regression testing on common bugs to prevent re-occurrence.
- Worked in an Agile environment to perform manual QA in staging environment to identify, document, and fix bugs before they reach the end-user.

Volunteer Experience / Extracurriculars

Piano Tutor, Hamilton Community Center April – September 2018

- Customized tutoring and schedules to fulfil the needs of a diverse number of students of varying levels to focus on fundamental piano skills while monitoring progress and providing feedback to meet the expectations and goals of student.

Education

B.Sc, Computer Science, 3^d Year, University of British Columbia September 2019 – 2023