

Billy Pak Lam Lee

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EXPERIENCE

- **Hanabusa Japan Real Estate** Japan (Remote)
 - *Data Entry Automator* *Sep 2020 - Sep 2021*
 - **Web Scraping and Data Entry Automation, Residential Properties**
 - * Extracted residential property information and images from a Japanese real estate website (homes.co.jp) using BeautifulSoup4 and entered them into the company website (hanabusa-realty.com) using Selenium in Python.
 - * Saved up to 60 hours of manual labor per month.
 - **Web Scraping, Investment Properties**
 - * Extracted investment property information from a Japanese investment property website (system.reins.jp).
 - * Wrote a Python script that converted PDF files (Information taken from the website) into HTML files. Then, Selenium was used to select essential property information (over 30 fields) from the HTML file.
 - * Saved up to 60 hours per month when compared to manually extracting information.

PROJECTS

- **Biquadris - C++**
 - A variation of the Tetris game but with customizable board size and win condition.
 - Implemented using the Model-View-Controller design pattern.
 - The Factory Method design pattern was used to generate blocks for different levels, where each level has different probabilities for generating different blocks.
 - The X Window System was used to create the GUI.
- **Wordle - C++**
 - Created a command line Wordle game, but the length of the word can be arbitrary and numbers can be used.
- **Sudoku Solver - Python**
 - Implemented using the backtracking algorithm.
- **Watcard Transactions and Balance Checker - Python**
 - Scraped Watcard transactions and balances using Selenium.
 - Used matplotlib to create a frequency graph for the transactions.
- **Connect-X Game - Python**
 - A variation of the Connect-4 game but with customizable board size and win condition.
- **RunSuite - Bash Script**
 - Created a Bash script that checks if a given program matches the output of the given test suite.

EDUCATION

- **University of Waterloo** Ontario, Canada
 - *Honours Bachelor of Mathematics - Third Year* *Sep. 2020 - Aug. 2024*
 - Cumulative GPA: 3.9/4.0
 - Double Major: Computational Mathematics and Combinatorics & Optimization
 - Minor: Computer Science

SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, C++, C, Bash, HTML, CSS, SQL, Ruby, R, MIPS Assembly, Racket, LaTeX
- **Technologies/Frameworks:** React, Redux Toolkit, Firebase, Selenium, BeautifulSoup4, Git, npm, Webpack, Linux/Unix, Adobe Photoshop, MS Office Suite