Billy Pak Lam Lee

https://github.com/pl3lee

Email : pl3lee@uwaterloo.ca
Mobile : +1(437)224-6179
Address: 57 Russell Hill Road, Markham, Ontario, Canada L6C 2M5

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.
- **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.
- **CV Generator - HTML/CSS/JavaScript(React)**
  - Created a webpage that generates a CV using React.
- **Battleship - HTML/CSS/JavaScript(React)**
  - Created a Battleship game using React.
- **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