

# Billy Pak Lam Lee

<https://github.com/pl3lee>

Email : [pl3lee@uwaterloo.ca](mailto:pl3lee@uwaterloo.ca)

Mobile : +1(437)224-6179

Address: 57 Russell Hill Road, Markham, Ontario, Canada L6C 2M5

## EXPERIENCE

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- **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](https://homes.co.jp)) using BeautifulSoup4 and entered them into the company website ([hanabusa-realty.com](https://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](https://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

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- **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

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

## SKILLS

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- **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