Billy Pak Lam Lee

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EXPERIENCE

Rhetoricon, University of Waterloo

Waterloo, Ontario, Canada

Full Stack Developer Intern (Part-time)

Jan 2023 - Apr 2023

- o Rhetoricon Website
 - * Contributed to the development of a website for a cognitive linguistic research group, leveraging NextJS and TypeScript for the frontend and a Golang REST API for the backend.
 - * Collaborated with senior developers to create responsive and intuitive interfaces using NextJS components.
 - * Utilized GitLab pipeline for testing and linting to ensure optimal website performance and maintain high code quality.
 - * Improved the search functionality for the figures page by creating an autocomplete dropdown menu that displays associated figures when searching for synonyms.
 - * Developed a search bar on the sources page using MaterialUI, allowing users to easily access relevant content.

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.

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
 - $\circ\,$ Scraped Watcard transactions and balances using Selenium.
 - $\circ~$ Used matplotlib to create a frequency graph for the transactions.
- CV Generator HTML/CSS/JavaScript(React)
 - $\circ\,$ Created a web page 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
- o Double Major: Computational Mathematics and Combinatorics & Optimization
- o Minor: Computer Science

SKILLS

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