

Billy Pak Lam Lee

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EDUCATION

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

EXPERIENCE

- **Bolee Machine Tool Ltd.** Hong Kong
Computer Technician Intern *Apr 2023 - May 2023*
 - Managed and maintained the company's Wordpress website, including writing a Python program using Selenium to automate the updating of product prices and deleting products given a list of model numbers, completing 2 months worth of manual labor in just 4 hours.
 - Managed the company's server system, including configuring the VPN server for remote access and upgrading the storage of the NAS server.
- **University of Waterloo** Waterloo, Ontario, Canada
Full Stack Developer Intern (Part-time) *Jan 2023 - Apr 2023*
 - Contributed in the development of a Next.js and TypeScript frontend and a Golang REST API backend for a cognitive linguistic research group's website.
 - Created responsive and intuitive interfaces using NextJS components and Material UI.
 - Utilized GitLab pipeline for testing and linting to ensure optimal website performance and maintain high code quality.
 - Streamlined development processes by transitioning the front-end framework from Ant Design to Material-UI.
 - Created a backend endpoint that dissociates an instance with a figure.

PROJECTS

- Biquadris - C++
 - Developed a customizable Tetris game variant with adjustable board dimensions and win conditions.
 - Employed the Model-View-Controller (MVC) design pattern for a robust and maintainable architecture.
 - Utilized the Factory Method design pattern to generate unique block configurations for varying levels.
 - Leveraged the X Window System to craft an engaging and user-friendly GUI.
- Recipe App - NextJS(TypeScript), Node.js, MongoDB, Express
 - Developed a recipe sharing web application using Next.js, Node.js, Express, and MongoDB, with user authentication and authorization features and the ability for users to save or unsave recipes.
 - Designed and implemented the user interface using Material UI.
 - Used the useContext hook to manage global states.
 - Utilized TypeScript for improved code reliability and type safety.
- CV Generator - HTML/CSS/JavaScript(React)
 - Created a webpage that generates a CV using React.
- Sudoku Solver - Python
 - Implemented using the backtracking algorithm.
- RunSuite - Bash Script
 - Created a Bash script that checks if a given program matches the output of the given test suite.

SKILLS

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