

Billy Pak Lam Lee

GitHub

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EDUCATION

- **University of Waterloo** Ontario, Canada
Honours Bachelor of Mathematics - Fourth Year *Sep. 2020 – Aug. 2024*
 - Cumulative GPA: 89.83/100
 - Double Major: Computational Mathematics and Combinatorics & Optimization
 - Minor: Computer Science

EXPERIENCE

- **University of Waterloo** Waterloo, Ontario, Canada
Full Stack Developer Intern (Part-time) *Jan 2023 - Current*
 - Created responsive and intuitive interfaces using NextJS components and Material UI.
 - Utilized Jest and 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.
 - Developed backend endpoints for a Golang REST API
- **Hewlett Packard Enterprise** Hong Kong
Presales Intern *Jun 2023 - Aug 2023*
 - Developed demo processes and created demo guides for various HPE GreenLake solutions, including Ezmeral, Private Cloud Enterprise, Aruba SASE, Citrix VDI, Zerto, Azure Stack, and DSCC.
 - Created a React.js webpage to showcase available demos.
 - Automated parts of the demo processes using Python, PowerShell, and Bash scripts.
 - Worked with VMWare vSphere VMs to create demo environments and created a dedicated VM to host the demo website using Apache.
- **Bolee Machine Tool Ltd.** Hong Kong
Computer Technician Intern *Apr 2023 - May 2023*
 - Developed a Python program using Selenium to automate product management on the company's Wordpress website, reducing 2 months of manual labor to 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.

PROJECTS

- Instagram Clone - Next.js, Express, Firebase Auth, MongoDB, Socket.io, Node.js, TypeScript
 - Developed an Instagram clone using Next.js, Express, Firebase Auth, MongoDB, Socket.io, and Node.js, replicating core features such as user registration, profiles, post creation, and real-time chat.
 - Integrated MongoDB for efficient data storage and utilized Node.js for server-side operations. Implemented user authentication with Firebase Auth and real-time chat with Socket.io.
 - Ensured a responsive and user-friendly design using Tailwind CSS, providing an optimal viewing experience across different devices.
- 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.

SKILLS

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