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

- **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.
- **University of Waterloo** — Waterloo, Ontario, Canada
  Full Stack Developer Intern (Part-time) — *Jan 2023 - Apr 2023*
  - 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.
  - Developed backend endpoints for a Golang REST API

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, Firebase, Selenium, BeautifulSoup4, Git, npm, Webpack, Wordpress, Linux/Unix, Adobe Photoshop, MS Office Suite