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Billy Lee

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Portfolio GitHub LinkedIn

Employment

Lead Developer (Part-time)   **University of Waterloo**   **Starting Jan 2024**

Full Stack Developer (Part-time)   **University of Waterloo**   **Jan – Apr, Sept – Dec 2023**
- Spearheaded the implementation of advanced features including Rich Text Support and dynamic highlighting functionality.
- Innovatively designed and executed responsive NextJS components and pages, leveraging Material UI for optimal user experience.
- Engineered and deployed robust backend endpoints for a Golang-based REST API.
- Authored comprehensive tests using Jest and React Testing Library to ensure code integrity and functionality.

Presales Intern   **Hewlett Packard Enterprise**   **May – Aug 2023**
- Developed and launched a React.js-based demo portal as the sole developer, effectively showcasing HPE GreenLake solutions and streamlining the demo process by at least 50%.
- Orchestrated the automation and optimization of demo processes for a range of HPE solutions, utilizing Python and Bash scripts, and managed VMware vSphere VM environments to ensure efficient and effective demo execution.

Computer Technician Intern   **Bolee Machine Tool Ltd.**   **Apr – Jun 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.

Education

Waterloo, ON Canada   **University of Waterloo**   **Sept 2020 – Aug 2024**
- Honours Bachelor of Mathematics - Fourth Year.
- Double Major in Computational Mathematics, and Combinatorics & Optimization.
- Minor in Computer Science

Technical Experience

Projects
- **Multi-User Drawing Tool** (2004). Electronic classroom where multiple users can view and simultaneously draw on a "chalkboard" with each person's edits synchronized. C++, MFC
- **Synchronized Calendar** (2003 – 2004). Desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users. C#.NET, SQL, XML
- **Operating System** (2002). UNIX-style OS with scheduler, file system, text editor and calculator. C

Additional Experience and Awards

- **Instructor (2003 – 2005):** Taught two full-credit Computer Science courses; average ratings of 4.8 out of 5.0.
- **Third Prize, Senior Design Projects:** Awarded 3rd prize for Synchronized Calendar project, out of 100 projects.

Languages and Technologies

- C++; C; Java; Objective-C; C#.NET; SQL; JavaScript; XSLT; XML (XSD) Schema
- Visual Studio; Microsoft SQL Server; Eclipse; XCode; Interface Builder