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Billy Lee

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Education

Waterloo, ON Canada	University of Waterloo	Sept 2020 – Aug 2024
<ul style="list-style-type: none">• Honours Bachelor of Mathematics - Fourth Year.• Double Major in Computational Mathematics, and Combinatorics & Optimization.• Minor in Computer Science		

Employment

Lead Developer (Part-time)	University of Waterloo	Starting Jan 2024
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Full Stack Developer (Part-time)	University of Waterloo	Jan – Apr, Sept – Dec 2023
<ul style="list-style-type: none">• Spearheaded the implementation of advanced features including Rich Text Support and dynamic highlighting functionality.• Innovatively designed and executed responsive Next.js 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Revolutionized product management by developing a Python-based automation tool using Selenium for the company's WordPress e-commerce site, slashing 2 months of manual effort 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.		

Technical Experience

Projects

- **Instagram Clone** . Developed an Instagram clone using Next.js, TailwindCSS, Express, Firebase Auth, MongoDB, Socket.io, and Node.js, replicating core features such as user registration, profiles, post creation, and real-time chat.
- **Biquadris** . Engineered a customizable Tetris variant in C++, utilizing MVC and Factory Method design patterns for a robust architecture. Created an engaging and user-friendly GUI using the X Window System, with adjustable board dimensions and win conditions.

Skills

- **Languages:** TypeScript, JavaScript, HTML, CSS, Python, C++, Go, Bash, SQL, LaTeX, MATLAB
- **Technologies/Frameworks:** React, Next.js, Socket.io, Node.js, MongoDB, Mongoose, MaterialUI, TailwindCSS, Jest, React Testing Library, Firebase, Selenium, Git, npm, Linux/Unix, Wordpress, Github, Gitlab.