

# Bill Li

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## EDUCATION

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### University of Waterloo

*Bachelor of Computer Science, President's Scholarship of Distinction*

Waterloo, ON

*Expected May 2025*

- Relevant Coursework: Data Structures, Algorithms, Databases, Operating Systems, Statistics, Probability

## WORK EXPERIENCE

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### Full Stack Software Engineer @ Surfboard

*TypeScript, Next.js, AWS Lambda, DynamoDB*

Sept. 2022 – Dec. 2023

*San Francisco, CA*

- Enhanced application performance by transitioning from React Context to **Zustand**, leading to a **40%** reduction in load times and a **65%** decrease in unnecessary re-renders.
- Designed and implemented QuickBooks integration to streamline financial data sharing, simultaneously enhancing user experience through the creation of **D3**-based data visualizations.
- Engineered a unified social newsfeed feature by leveraging Facebook, LinkedIn, and Twitter APIs, elevating user engagement by **18%** and facilitating a central hub for real-time company updates.
- Devised and executed an automated monthly digest system, utilizing key analytics to increase user engagement by **20%** and maintain information continuity.
- Integrated Surfboard AI, featuring **GPT-4**, into the platform to provide an interactive AI chatbot, assisting with tasks like drafting automated updates, thereby improving user efficiency and satisfaction.

### Software Engineer @ VTS

*TypeScript, React/React Native, GraphQL, PostgreSQL*

Jan. 2022 – Apr. 2022

*New York, NY*

- Improved code maintainability across all shared packages and enabled monorepo lint action on commits by migrating remaining JavaScript codebase to **TypeScript**.
- Drove support for sustainable data growth by proposing and implementing modifications in the **PostgreSQL** database to create a partition column on available tenant tables, improving query speeds by up to **35%**.

### Full Stack Developer @ Residential Development Services

*TypeScript, React, GraphQL, MongoDB*

May. 2021 – Aug. 2021

*Toronto, ON*

- Improved data visibility by developing and styling the “Reports” page of the company’s in-house application, providing users with a comprehensive and easily accessible database view of all active reports.
- Improved user productivity by up to **80%** by integrating filtering capabilities on the dashboard, allowing users to efficiently select and view all units that satisfy a certain condition.

### Blockchain Engineer Intern @ DxChain

*Solidity, Web3.js, React*

May. 2019 – Aug. 2019

*San Francisco, CA*

- Created a decentralized, lottery-system application that allows users to purchase reusable tokens and deploy them into prize pools for a chance to win Ether.

## RELEVANT PROJECTS

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### Productivity Timer

*TypeScript, Next.js, Tailwind CSS, DrizzleORM, PlanetScale (MySQL-based)*

try: [productivitytimer.app/](https://productivitytimer.app/)

- Independently designed and implemented a fully functional pomodoro timer with flexible user customization and a todo-list animated with framer motion.
- Featured as a studying resource in University of Waterloo’s academic success tutorials.

### Prettiest Spotify Player

*TypeScript, Next.js, Tailwind CSS, Spotify API, React-Spring*

try: [github.com/bill-li1/spotify-player](https://github.com/bill-li1/spotify-player)

- An innovative web-based music player featuring advanced integrations with Spotify’s API, offering a rich user experience through stunning, responsive animations.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, C/C++, SQL, Python

**Frameworks/Tools:** React, Next.js, Express.js, GraphQL, MUI, AWS, Linux, Git/Github