

# William Tran

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## Skills

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**Languages** TypeScript, JavaScript, Java, Python, SQL, CSS3, HTML5  
**Technologies** React, PostgreSQL, Redux, Hibernate, Remix, Next.js, Redis, JUnit, Mockito, Jest, Git

## Education

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### University of Waterloo

2019 - 2024

Bachelor of Computer Science

- President's Scholarship of Distinction
- Coursework: Algorithms, Database Systems, User Interfaces, Software Testing, Operating Systems, Distributed Systems

## Experience

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### BitGo

May - Aug 2022

Software Engineering Intern

Palo Alto, CA

- Developed REST APIs and internal CLI tools using **TypeScript** to streamline support resolution process
- Built **React** components using **Remix** hooks to automatically fetch and display API docs and onboard new developers
- Implemented support for new **cryptocurrency** features including STX stacking contracts

### Jobbox.ai

Aug - Dec 2021

Software Engineering Intern

Palo Alto, CA

- Built REST APIs using **Java** and **Redis** to allow customers to submit job requests, adding **\$25 000+** in revenue per month
- Created a **React** dashboard in **TypeScript** to track users' progress in bonus criteria as part of guaranteed pay program
- Developed messaging components using **React** and **Redux** to keep users updated on the status of their jobs

### University of Waterloo

Jan - Apr 2021

Full-Stack Web Developer

Waterloo, ON

- Reduced page load times by **23%** by batching and eliminating redundant API calls and **PostgreSQL** queries
- Saved instructors up to **8 hours** per course by replacing manual data entry with automated TA evaluation process
- Created an interactive mapping tool with **JS** and **jQuery** allowing professors to edit exam room layouts

### University of Waterloo

Jun - Aug 2020

Software Developer

Waterloo, ON

- Created a **React Native** app with **Redux** and **Firebase** for students to find nearby events and join chat rooms

## Extracurriculars

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### UW Blueprint - Canadian Children's Book Centre

May 2022 - Present

Software Developer

- Reduced query time by **36%** when searching and filtering book reviews by optimizing **PostgreSQL** relations and queries
- Implemented endpoints in **TypeScript** along with corresponding **React** modals to add and remove book labels

### UW CS Club

Jan 2021 - Present

Web Developer & Event Organizer

- Created responsive screens and components using **React** and **TypeScript** as part of complete website overhaul

## Projects

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### Flash Notes

- Created a web app using **JS** and **Node.js** to generate flashcards from text to help students study
- Designed algorithms using **Google NL API** to extract sentence structure and create questions from statements

### Course Match

- Built a **React** and **Node.js** app to parse transcripts and automatically add students to class-specific Discord channels