

# Willson Wang

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## Education

### University of Waterloo

Expected Graduation: Apr 2023

- Bachelor of Computer Science, Dean's List (3.83/4.00 GPA), Economics Minor
- Relevant coursework: Data Structures, Algorithms, Databases, Object Oriented Programming

## Technical Skills

**Languages:** Python, JavaScript, C#, C++, SQL, Java, HTML, CSS

**Frameworks and Tools:** React.js, Redux, Node.js, Express, .NET, Flask, Git, Azure, AWS

## Work Experience

### Incoming Software Engineer Intern | Wish (ContextLogic)

Sep 2021 – Dec 2021

### Software Developer Intern | Geotab

Jan 2021 – Apr 2021

- **Facilitated automated account deactivation** process by implementing database triggers, stored procedures, service-layer functions, and paginated API endpoints using C# and SQL
- Improved authorization server error handling by implementing API endpoints for multi-factor authentication with OAuth2 PKCE flow and developing **custom exception classes**
- Enhanced multi-tenant scalability by automating device ordering and refactoring feature flag configurations
- Revamped state management and device activations UI by conducting research and working with product teams

### Software Engineering Intern | PointClickCare

May 2020 – Aug 2020

- **Reduced application load time by up to 45%** by eliminating redundant React states from component hierarchy
- **Decreased payload processing time** by refactoring data pipeline algorithms in Java and JavaScript to efficiently query, parse, and aggregate medical data from SQL database
- Designed, implemented, and demoed dynamic data visualization widgets which fetch health information from API for over 2 million patients using React, Redux, and JavaScript
- Increased code coverage by 15% and overall code reliability by creating automated test suites

### Front End Developer | Purolator

May 2019 – Aug 2019

- **Increased user retention by 25%** by leading redesign, development, and deployment of WCAG-compliant applications with over 1.7 million weekly visitors using HTML, SASS, and Bootstrap
- **Reduced page bounce rate by 40%** by developing JavaScript functions to improve responsiveness of desktop web applications and resolving rendering issues on mobile browsers

## Projects

### BlueKey - Housing Classifieds Service

- Implemented custom **role-based access control** and user authentication system with secured API endpoints using Node, Express, and PostgreSQL
- Integrated AWS S3 into React components to handle asynchronous uploads for image repository

### Insights Extraction

- Won **Intact Insurance Hacker Challenge** at Hack the 6ix 2020 for Flask (Python) application which uses entity recognition and sentiment analysis to extract insights from insurance claims with 85% accuracy