ANNIE CHEN

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EDUCATION

Candidate for Honours Bachelor of Computer Science | GPA: 3.76 / 4.00
University of Waterloo   *Expected Graduation April 2025*

EXPERIENCE

1Password   09/2022 – 12/2022
Software Developer Intern

- Enhanced desktop application UI with **TypeScript** to improve overall MFA sign-in experience for 6,000+ users.
- Scoped and developed back-end **Rust** session delegation functions to integrate communication between browser extension and desktop, improving account sync frequency by 30%.
- Implemented browser extension banner actions for enabling two-factor authentication with **TypeScript**.
- Programmed and designed extension data storage capabilities for universal sign-on, filling & saving items with Rust and Typescript in case of Chrome MV3 service worker failure, enhancing **20,000** fills weekly.

Autodesk   01/2022 – 04/2022
Front-end Developer Intern

- Developed component bundle size analyzer for 70+ packages using **webpack** and **Node.js** to pinpoint bloated elements and improve front-end performance.
- Updated and maintained Storybook components used by 17+ teams throughout the organization.
- Refactored component package of 10+ **React** functions using TypeScript to display date and time text according to company guidelines.
- Created **Redux** Reducer to facilitate external loading of Tree component nodes and ensured functionality with 10+ Jest tests.
- Implemented responsive **D3.js** data visualizations of **200+ components** to track company-wide package use.

Filament AI   05/2021 – 08/2021
Developer Intern

- Re-designed and programmed 15+ front-end data analysis features (bar graph, line chart, table) using Redux, **JavaScript** and CSS to provide investment insights.
- Integrated **MySQL** database of **100+** companies with asynchronous JavaScript to contrast company data.
- Streamlined production of 30+ company-wide conversational AI dialogues through JavaScript automation and XML & CSV parsing, increasing chatbot conversation generation by **80%**.

PROJECTS

RiteReview ⬤   04/2022

- Developed and designed book tracker web app with React, **MongoDB**, **Express.js** and **Node.js** to record and display 60+ book reviews.
- Integrated **Google Books API** with JavaScript to query 10+ entries in database.
- Implemented **Google OAuth 2.0 Authentication** with **Passport.js** to ensure security for 5+ users.

Watchr ⬤   08/2021

- Spearheaded development of **Electron** and JavaScript app to record and save 10+ live web events.
- Constructed video preview and screen capturing features using React and **Figma.**

SKILLS

Languages: JavaScript, Rust, Java, C, C++, Bash, TypeScript, HTML/CSS, SQL

Tools and Technologies: React, Redux, Node.js, Git, Figma, JQuery, Jira, Bootstrap, D3.js

INTERESTS

- Fantasy Literature
- Sewing
- Trivia
- Sustainability