

Yuhao Chen

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EDUCATION

Bachelor of Computer Science
University of Waterloo, Waterloo, ON

Sep 2019 – April 2023

WORK EXPERIENCE

Software Engineer Intern

Jan 2022 – April 2022

Wish, San Francisco, CA (Remote)

- Built a Javascript code deprecation script using syntax analysis techniques (analyzing abstract syntax trees). Deprecated more than 200 legacy files with more than 30,000 lines of code. ([*Node.js*](#))
- Designed a React custom hook for abstracting form state and validation, which reduced complexity and code duplication when building form pages. ([*React, Typescript*](#))
- Added web components and backend services for the merchant-facing dashboard. ([*React, Typescript, Python, GraphQL*](#))

Software Developer Intern

May 2021 – Aug 2021

RSVP.ai, Waterloo, ON

- Designed and developed a prototype of web monitoring system. The system has helped the team to identify user preferences and provided key insights into the bugs that occurred to users. ([*React, Redux, Node.js, Typescript*](#))
- Added code splitting for the NLP web platform for 56% faster non-cached initial load time. Added tree-shaking for Lodash that reduced the overall bundle size by 12%. ([*Vue.js, Webpack*](#))
- Developed a data pipeline that extracted a training dataset from 2 million scanned tables. ([*Python*](#))

Front-end Developer Intern

May 2020 – Jan 2021

ByteDance, Beijing

- Contributed to the internal WYSIWYG web builder, adding multiple draggable components with built-in business logic. The web builder enabled rapid construction of mobile compatible promotional pages with millions of page views. ([*React, Redux, Typescript*](#))
- Contributed to the Payment SDK, which is utilized by multiple teams for their purchasing and payment modules. ([*Node.js, Typescript*](#))
- Developed a UI library of customizable swipers, which were applied to the end-of-year summary pages across three product lines, totalling more than 9 million page views. ([*React, Typescript*](#))

SELECTED PROJECTS

Alpha-CC-Web

July 2021 – present

A Chinese Chess web platform. This is the front-end part of Alpha-CC, which is an on-going project that tries to make a Chinese Chess AI based on DeepMind's AlphaZero architecture. ([*React, Typescript*](#))

<https://alpha-cc.github.io/alpha-cc-web/>

Create-Hotdog-App

June 2021 – July 2021

Production-ready all-in-one React Typescript boilerplate code generator, with babel 7, webpack 5, prettier, eslint, stylelint, commitlint, lint-staged, and husky. ([*Node.js, Typescript*](#))

<https://github.com/Yuhao-C/create-hotdog-app>

Traveling Salesman Problem with Genetic Algorithm

Oct 2018 – Feb 2019

A visual solution to the Traveling Salesman Problem using Genetic Algorithm. ([*Java, Processing*](#))

https://github.com/Yuhao-C/TSP_GeneticAlgorithm

SKILLS

JavaScript, Python, C/C++, Java, Rust, HTAML, CSS, Typescript, React, Redux, Vue.js, Node.js, SQL, MongoDB, GraphQL, git, AWS, Webpack, HTTP, Websocket,