

# Udy Ding



udyding.com



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github.com/udyding

## SKILLS

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

**Technologies:** Node.js, React, Next.js, AngularJS, Express, Flask, MongoDB, AWS, Chai, Git, Postman

## EDUCATION

**University of Waterloo** - Bachelor of Computer Science, Honours

Sep 2020 - Apr 2024

- 2x Dean's Honours List, 91.4% cumulative average (3.95/4.00 GPA)

## EXPERIENCE

**Wish**

San Francisco, CA | Jan 2022 - Apr 2022

Incoming Software Engineer Intern, Product Web

**OpenText**

Waterloo, ON | May 2021 - Aug 2021

Full Stack Software Developer Intern, OT Engineering

- Implemented internationalization and vanity URL customization of **10+** Core Share software widgets using **JavaScript + AngularJS** with full **Mocha + Chai** unit test coverage, personalizing Core Share for **thousands** of public and enterprise users across four global regions
- Scoped and developed new Core Share document sharing and metadata editing features using **AngularJS** and **Sails** policies to enforce permissions-based access
- Expanded file date editing feature to users of all languages with automatic configuration using **Moment.js**
- Strengthened subresource integrity security by replicating third-party CDNs locally and injecting into **Sails** asset pipeline, eliminating reliance on vulnerable CDN links

## PROJECTS

**coda** - Quickly fill playlists by listening to exciting snippets of tracks

Aug 2021 - Present

- Developed an algorithm to find a musically exciting section from any track using Spotify API audio analysis
- Minimized API request volume and improved algorithm runtime by **96%** using **Redis** caching
- Designed and built an automatically populated track recommendation queue using **TypeScript, Next.js**, and local storage API, allowing users to listen to new songs based on items in an existing playlist
- Utilized **NextAuth.js** and Spotify OAuth to authenticate users with auto-refreshing access tokens

**Campus Cooks** - Sell dorm-cooked meals on a marketplace for UWaterloo students

Feb 2021

- Built student meal-posting management application using **Express + MongoDB** with **Firestore** authentication
- Created landing, browse, and profile pages using **React** and **HTML/CSS** modules

**Inclusify** - Automatically identify non-inclusive or biased words in your writing

Feb 2021

- Won **Best Cisco #InclusiveFuture hack** at Pearl Hacks 2021
- Sourced alternative vocabulary and generated word recommendation library using **JavaScript**, optimizing word lookup by caching API results