

Udy Ding

 udyding.com

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SKILLS

Languages: TypeScript/JavaScript, Python, HTML/CSS, SQL, C

Technologies: NodeJS, React, Next.js, AngularJS, Express, Flask, MongoDB, AWS, Chai, Jest, Firebase, Formidable, Puppeteer, Git, Postman, JIRA

EDUCATION

University of Waterloo - Bachelor of Computer Science, Honours

Sep 2020 - Apr 2025

- 2x Dean's Honours List, 91.4% cumulative average (3.95/4.00 GPA)
- Relevant courses: Object-Oriented Software Development, Algorithm Design and Data Abstraction

EXPERIENCE

OpenText  - Full Stack Software Developer Intern (Waterloo, Ontario)

May 2021 - Aug 2021

- Implemented internationalization and vanity URL customization of **10+** Core Share software widgets using **JavaScript + AngularJS** with full **Mocha + Chai** unit test coverage, personalizing the experience 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 JavaScript CDNs locally and injecting them into **Sails** asset pipeline, eliminating reliance on vulnerable CDN links

PROJECTS

coda 

Aug 2021 - present

Quickly populate your Spotify playlists by listening to the most exciting parts of recommended tracks

- 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 

Feb 2021

Buy and sell dorm-cooked meals on an online marketplace for UWaterloo students

- Built student meal-posting management application using **Express + MongoDB** with **Firebase** authentication
- Created landing, browse, and profile pages using **React** and **HTML/CSS modules**, leveraging state hooks to allow users to filter search results and create new postings

Inclusify 

Feb 2021

Identify and automatically replace non-inclusive, racially insensitive, or gender-biased vocabulary in your writing

- Won **Best Cisco #InclusiveFuture hack** at Pearl Hacks 2021
- Sourced alternative vocabulary from WordsAPI based on a list of offensive words and generated a word recommendation library using **JavaScript**; optimized word lookup by caching API results