

# UDY DING

Computer Science | University of Waterloo

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## SKILLS

**Languages:** Python, JavaScript ES6, HTML/CSS, SQL, C, R

**Technologies:** NodeJS, Express, React, MongoDB, Flask, Firebase, Bootstrap, Axios, Puppeteer

**Tools:** Git, GitHub, Postman, Bash

## PROJECTS

### Campus Cooks [🔗](#)

2021

*Buy and sell dorm-cooked meals on a marketplace for UWaterloo students*

- Designed different functionalities of the website and prioritized tasks to meet tight deadline
- Authenticated users with **Firebase** and maintained student information and postings using **Express + MongoDB** backend
- Created landing, postings, and profile pages using **React Router** and **HTML/CSS modules**
- Connected frontend to backend API to fetch user data and postings using **Axios**

### SousChef [🔗](#)

2021

*Simplify recipes and use voice commands to walk through steps hands-free*

- Implemented **Express** backend to retrieve and display recipe data using **Axios** and Spoonacular API
- Extracted user data through analyzing voice commands using annyang speech recognition library
- Developed landing, search results, and recipe interaction pages using **HTML/CSS** and **Bootstrap**

### Inclusify [🔗](#)

2021

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

- Best Cisco #InclusiveFuture hack at Pearl Hacks 2021
- Created JSON word library sourced from numerous online publications and optimized text analysis through storing vocabulary in a hash map

### lyricSMS [🔗](#)

2020

*Get lyrics to any song through texting an SMS bot*

- Built **Flask** backend to parse SMS messages, scrape song lyrics and data from azlyrics.com using **BeautifulSoup4**, and return formatted song lyrics
- Implemented an algorithm that splits song lyrics at ideal points to circumvent SMS character limits
- Set up and tested text message communication system using **Python** scripts and **Twilio API**

## EXPERIENCE

**President** - Bur Oak DECA (Markham, Ontario)

September 2019 - May 2020

- Led school chapter of **122** members and executive team of **9** members through its most successful season
- Planned and chaired weekly executive team meetings and initiated interactive training sessions
- Increased number of provincial competition qualifiers by **292%** and international competition qualifiers by **67%**

## EDUCATION

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

September 2020 - April 2025

- Dean's Honour List, 93.6% cumulative average (4.0 GPA)

In my spare time, I love to watch movies, cook, play Minecraft, and listen to *Tiny Desk Concerts*.