

# Anna Cai

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## EDUCATION

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### Northwestern University

Evanston, IL

*Bachelor of Science in Computer Science* | **GPA:** 3.89/4.00

Anticipated June 2025

**CS Courses:** Data Structures & Algorithms, Web Development, Intro to AI, Human Computer Interaction (In-Progress), Discrete Math (In-Progress), Fundamentals of Computer Programming

## TECHNICAL SKILLS

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**Languages:** Python, JavaScript, C++, C, HTML, CSS

**Frameworks/Technologies:** React, Git, Unix, Node.js, Express.js, MongoDB, Flask, PostgreSQL

## RELEVANT PROJECTS

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### FoodFinder (<https://annacai44.github.io/FoodFinder>)

Jul. 2022 - Aug. 2022

- Developed full-stack web app with React front-end and Node.js back-end that allows users to post information on leftover food on Northwestern University's campus to reduce food wastage
- Created REST API endpoints with MongoDB database to support CRUD operations for users' posts
- Implemented authentication with Google OAuth API to verify student status

### Movie Plot Generator (<https://annacai44.github.io/Movie-Plot-Generator>)

Jul. 2022

- Developed a web app utilizing OpenAI's GPT-3 API to generate unique film synopses and script excerpts given different conditions by the user
- Created front-end with React and back-end API proxy server with Node.js

### Sentiment-19 (<https://senti-map.herokuapp.com>)

Jan. 2022 - Apr. 2022

- Developed a webpage in a team of 5 that displays an interactive heat map of the U.S. showing each state's current sentiment towards COVID-19 based on Tweets
- Scraped 400k+ most recent Tweets related to COVID-19 in the U.S. using snsrape Python library
- Leveraged the Text to Emotion API to assign scores for five different emotions to each Tweet

## RELEVANT EXPERIENCE

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### Northwestern Institute of Electrical and Electronics Engineers (IEEE)

Evanston, IL

*Webmaster*

May 2022 - Present

- Maintain and update official website for IEEE at Northwestern with React and Tailwind CSS to notify prospective and current members of organizational events

### Northwestern University Computer Science Department

Evanston, IL

*Teaching Assistant*

Mar. 2022 - Present

- Help teach an introductory course to object-oriented programming in Python with over 200 students
- Conduct weekly office hours to assist students with programming assignments and answer questions on course content

## OTHER EXPERIENCE

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### Northwestern University, Design Thinking and Communication

Evanston, IL

*Student Engineer*

Sep. 2021 - Dec. 2021

- Designed and built a modular and portable children's desk to help children with learning from home
- Final deliverable won the Design Award at the McCormick School of Engineering Design Exposition

## LEADERSHIP

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**Women in Computing, Treasurer**

Mar. 2022 - Present

**Society of Asian Scientist and Engineers, Finance Committee**

Oct. 2021 - Present