

Owen Cai

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Education

Texas A&M University

BS Computer Science, Engineering Honors (GPA: 4.0)

College Station, TX

May 2027

Selected Coursework: Data Structures and Algorithms, Discrete Mathematics, Program Design, Linear Algebra

Experience

Texas A&M Aggie Research Program

Undergraduate Researcher

March 2023 - November 2025

College Station, TX

- Leading undergraduate research group, delegated tasks to other undergraduates
- Compiling review paper on ML application to battery & supercapacitor thermal management
- Researching application of ML to coaxial supercapacitors for upcoming paper

Engineering TA Organization

Web Developer, Social Officer

November 2024 - Present

College Station, TX

- Co-programmed winter final exam reviews page, providing development feedback along with UI design
- Coordinated events and promotions to target freshman engineering students demographic

Projects

Magical Menu

November 2024 - Present

- React Native app to elegantly display TAMU dining hall menus; 100 installs on launch day
- Ignored redundant API responses, fixing bug where rapidly switching mealtimes broke official app/website
- Implemented favoriting system to allow users to mark food of interest
- Used Async Storage to store settings and last viewed dining hall, saving users time

Personal Website

January 2025 - Present

- Developed with Next.js and TailwindCSS in an industrial visual style
- Designed and programmed promotional pages for Magical Menu to increase engagement
- Deployed to the internet with Vercel

Discord Bot

July 2022 - Present

- Retrieved user profile information from the League of Legends REST API
- Generated custom images to display users' bot statistics using Python pillow package
- Streamed video from internet to Discord voice channels to allow music listening in voice channels

Honors

CodeForces (Competitive Programming, Like USACO)

November 2024

1317 Rating (Top 30%)

National Merit Foundation

May 2024

National Merit Scholarship Finalist

USA Computing Olympiad

January 2023

USACO Silver Division

Skills

Asynchronous Programming, REST API, Version Control (Git), Java, Python, React Native, React, TailwindCSS, C++, JavaScript, HTML, CSS, SQL, Microsoft Azure, Vultr, IntelliJ IDEA, PyCharm, Visual Studio Code, Microsoft Office, Machine learning, pandas, scikit-learn, NumPy