

Owen Cai

(859) 397-8071 | owenbcai@gmail.com | <https://www.linkedin.com/in/owenbcai/> | <https://billert.dev/> | US Citizen

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

Switchless

Backend Software Engineer

January 2025 - Present

College Station, TX

- Student startup with 115k+ in funding, making a sensor-equipped smart switch
- Implementing Matter over Thread to integrate switches with smart home environment

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

TAMU Chinese School

Programming Teacher

January 2025 - Present

College Station, TX

- Teaching a class of 16 students programming logic and game development through Scratch
- Prepared weekly slideshows to aid in instruction
- Designed rewards system to promote class engagement and problem-solving

Projects

Magical Menu

November 2024 - Present

- React Native app to display TAMU dining hall menus, 80 downloads in first month
- Created custom API for server-side cache w/ AWS Lambda & DynamoDB (NoSQL), cutting loading times in half
- Local Cache (AsyncStorage) loads recently viewed menus instantly
- 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

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)

1317 Rating (Top 30%)

November 2024

National Merit Foundation

National Merit Scholarship Finalist

May 2024

USA Computing Olympiad

USACO Silver Division

January 2023

Skills

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