Owen Cai

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Education

Texas A&M University — College Station, TX
BS Computer Science, Engineering Honors (GPA: 4.0) — *May 2027*

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

Experience

Switchless LLC — Python, Django, SQLite, Relational Database — January 2025 - Present
Backend Software Engineer — *College Station, TX*

- Implemented **relational database** for smart home automations w/ **SQLite**, saving many user hours
- **Fixed critical bug** that broke QR code authentication system
- Performed **code review** on teammates' pull requests, ensuring best practices were followed
- **Selected to present** for Backend Software Team at weekly company meeting due to **outstanding performance**

Aggie Competitive Programming Club — React — Janurary 2025 - Present
Web Developer — *College Station, TX*

- Developed **promotional websites** for semesterly competitive programming contests
- Developing internal system to track problems solved, facilitating prize distribution

Engineering TA Organization — React, Figma — November 2024 - Present
Web Developer, Social Officer — *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 — January 2025 - Present
Programming Teacher — *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 App — React Native, AWS Lambda/DynamoDB — November 2024 - Present

- Mobile app to display TAMU dining hall menus, **80 downloads** in first month
- Created custom REST API for server-side cache; Accelerated loading times by up to **2133%**
- 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

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++, Multithreading, AWS, NoSQL, JavaScript, HTML, CSS, SQL, Microsoft Azure, Vultr, IntelliJ IDEA, PyCharm, Visual Studio Code, Microsoft Office, Machine learning, pandas, scikit-learn, NumPy