

Fu-Yao (Jefferson) Yu

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Education

The University of Texas at Austin

Austin, TX

Bachelor of Science in Electrical Engineering Honors | Minor in Business. Overall GPA: 4.0

May 2025

Relevant Coursework: Circuit Analysis, Assembly/C, Embedded Systems, Data Structures | Management, Accounting

Lawrence E Elkins High School, Fort Bend ISD Engineering Academy

Missouri City, TX

Valedictorian in class of 633; GPA: 4.0, SAT: 1580, ACT: 36

Jun 2021

National Merit Scholar; Two-time Winner of the Texas Inventathon; Top 3 Winner at HP CodeWars

Work Experience

QED Energy Associates - Data Science Intern

Houston, TX

- Led a project over analysis of oil & gas production in the Gulf Coast Region with 4 fellow interns.

Jun 2020

- Compiled data from 4 databases and created visualizations using Excel and Python Matplotlib.

- Presented findings about trends in horizontal drilling technology. Awarded best presentation by intern supervisor.

Applied Automation and Controls, Inc. (AAAC) - Mechanical Engineering Intern

Houston, TX

- Created digital models of parts using Autodesk Inventor to fit client constraints.

Jul 2019

- Manufactured parts using CNC machinery and tested part compatibility with other components.

Projects

importify

Austin, TX

- Created a web app to ease playlist importing for Spotify users. HTML/JS, Python (Flask), Jinja, Heroku.

Dec 2021

- Utilized by students nationwide to migrate digital media libraries. Enhanced regularly with new features.

Elkins High School TMSCA Math Contest - Lead Organizer & Developer

Missouri City, TX

- Coordinated a math contest with 500+ contestants and 200+ volunteers from scratch.

Dec 2019 – Jan 2020

- Digitized contest by programming a web application (HTML/JS/CSS) to automate registration, grading, and scoring.

- Raised over \$9,000 in revenue for community math programs. Digitalization improved time efficiency by 300%.

Anne Sullivan Elementary Math Club - Club Founder and Lead Coach

Sugar Land, TX

- Taught students 3x/week. Earned the title of 2018 Mathleague.org National Champion Team.

Aug 2016 – Jun 2021

- Programmed a practice problem generation website to increase accessibility of study materials.

- Strengthens math skills for the majority of young students across four nationally-ranked elementary school teams.

Leadership, Community Involvement, & Awards

Society of Asian Scientists and Engineers - Junior Secretary Officer

Dec 2021 – Present

Society of First-Year Engineers - Selected Member

Dec 2021 – Present

SEC Annual Case Competition, First Place

Nov 2021

Taiwanese-American Students Association - Member

Aug 2021 – Present

High School Math and Science Club - President and Team Captain

Apr 2018 – Jun 2021

UIL State Mathematics Competition, Second Place

May 2021

American Mathematics Competitions (AMC10/12), International Honor Roll

Jan 2018 – Feb 2020

President's Volunteer Service Award

Jun 2020

Skills & Interests

Programming: Java, Python, JavaScript, HTML/CSS, C, Assembly

CS50 (C, Python, SQL) Certification

Dec 2021

Software: Microsoft Office, AutoCAD, Autodesk Inventor, Adobe Photoshop, Adobe Premiere Pro

Languages: English (fluent), Mandarin Chinese (fluent), Spanish (intermediate)

Interests: Piano, Typing (160wpm)