

## Fu-Yao (Jefferson) Yu

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<b>Education</b>	<b>The University of Texas at Austin (UT Austin)</b> Austin, TX Bachelor of Science in Electrical Engineering Honors Program   Minor in Business Expected May 2025 Relevant Coursework: Electronics, Computing, Multivariable Calculus   Management, Accounting
	<b>Lawrence E Elkins High School, Fort Bend ISD Engineering Academy</b> 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
<b>Work Experience</b>	<b>QED Energy Associates</b> Houston, TX Summer Intern with Focus in Data Science Jun 2020 - Led a project over analysis of oil & gas production in the Gulf Coast Region with 4 fellow interns. - Compiled data from 4 databases and created visualizations using Excel and Python Matplotlib. - Presented findings about trends in horizontal drilling technology.
	<b>Applied Automation and Controls, Inc. (AAAC)</b> Houston, TX Summer Intern with Focus in Mechanical Engineering Jul 2019 - Created digital models of parts using Autodesk Inventor to fit client constraints. - Manufactured parts using CNC machinery and tested part compatibility with other components.
	<b>Private Math and Science Tutor</b> Sugar Land, TX - Taught intermediate-level contest math and high school (AP) calculus, physics. Aug 2017 – Aug 2021
	<b>Elkins High School TMSCA Math Contest</b> Missouri City, TX Lead Tournament Organizer Dec 2019 – Jan 2020 - Planned from scratch and coordinated a math contest with 500+ contestants and 200+ volunteers. - Digitized contest by programming a web-based application (HTML/JavaScript/CSS) to automate registration, grading, and score tabulation tasks. Digitalization improved time efficiency by 300%. - Raised over \$9,000 in revenue for our school and community math programs.
<b>Leadership &amp; Project Experience</b>	<b>Fort Bend ISD Engineering Academy</b> Missouri City, TX Student Body President / Director of Activities / Member Aug 2018 – Jun 2021 - Hosted field trips, seminars, socials, etc. to help students discover their passion for engineering. - Increased student engagement and attendance by 550%. Increased program enrollment by 72%.
	<b>Anne Sullivan Elementary Math Club</b> Sugar Land, TX Club Founder and Lead Coach Aug 2016 – Jun 2021 - Helped young students unlock their passions for math. Met for classes twice a week. - Programmed a practice problem generation website to increase accessibility of study materials. - Earned the title of 2018 Mathleague.org National Champion Team.
	<b>Society of Asian Scientists and Engineers, Member</b> Aug 2021 – Present <b>Taiwanese-American Students Association, Member</b> Aug 2021 – Present <b>High School Math and Science Club, President and Team Captain</b> Apr 2018 – Jun 2021 UIL State Mathematics Competition, Second Place May 2021 American Mathematics Competitions (AMC10/12), International Honor Roll Jan 2018 – Feb 2020 <b>President's Volunteer Service Award</b> Jun 2020
<b>Skills</b>	<b>Programming:</b> Experienced in Java, Python, JavaScript, HTML/CSS. Proficient in C++. <b>Software:</b> Microsoft Office, AutoCAD, Autodesk Inventor, Adobe Photoshop, Adobe Premiere. <b>Languages:</b> English (fluent), Mandarin (fluent), Spanish (intermediate) <b>Interests:</b> Piano, Typing (160wpm)