Fu-Yao (Jefferson) Yu

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Education

The University of Texas at Austin - Austin, TX   Aug 2021 – May 2025
Bachelor of Science in Electrical Engineering Honors | Minor in Business. Overall GPA: 4.0
Relevant Coursework: Assembly/C, Embedded Systems, Data Structures, Algorithms | Management, Accounting

Lawrence E Elkins High School, Fort Bend ISD Engineering Academy - Sugar Land, TX   Aug 2017 – Jun 2021
Valedictorian in class of 633; GPA: 4.0, SAT: 1580, ACT: 36; National Merit Scholar; Top 3 Winner at HP CodeWars
Two-time winner of the Texas Inventathon; American Invitational Mathematics Examination (AIME) Qualifier

Work Experience

Samsung - *GPU Software Developer Intern*. Austin, TX   May 2022 – Aug 2022
- Built 4 image validation tools to provide comprehensive reports to the SARC Compiler Team
- Analyzed complexity of 12 graph algorithms by integrating open-source libraries to diagnose compiler issues
- Partook in Programming Language Design presentations to grasp nuances of C, C++, Java, and other languages

QED Energy Associates - *Data Science Intern.* Houston, TX   Jun 2020
- Led a project over analysis of oil & gas production in the Gulf Coast Region with 4 fellow interns
- Compiled data from 3 databases and created visualizations using Excel and Python Matplotlib
- Presented findings about financial motivation trends in horizontal drilling technology. Awarded Intern of the Year

Projects

E-Week Dev Team - *Front-End Developer*. Austin, TX   Aug 2022 – Present
- Developed a web app with Node, React, and Amazon AWS to facilitate Engineers' Week (E-Week) events
- Enabled ease of scheduling and point tabulation for over 500 E-Week participants across 15 campus organizations

Elkins High School TMSCA Math Contest - *Lead Organizer & Developer*. Missouri City, TX   Dec 2018 – Jan 2020
- Coordinated a math contest with 500+ contestants and 200+ volunteers from scratch
- 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   Aug 2016 – Jun 2021
- Taught students 3x/week. Earned the title of 2018 Mathleague.org National Champion Team
- Programmed a practice problem generation website to increase accessibility of study materials for 200+ students

Leadership, Community Involvement, & Awards

University of Texas, ECE Software Engineering Lab - Undergraduate Researcher	Aug 2022 – Present
Texas Convergent - Forge Startups, Tech Developer	Aug 2022 – Present
Society of Asian Scientists and Engineers - Vice President External	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

Skills & Interests

Programming: Java (advanced), C/C++ (advanced), Python (intermediate), JavaScript, HTML/CSS, Assembly
    CS50 (C, Python, SQL) Certification, awarded by Harvard University
Software: Microsoft Office, AutoCAD, Autodesk Inventor, Adobe Photoshop, Adobe Premiere Pro
Languages: English (fluent), Mandarin Chinese (fluent), Spanish (intermediate)
Interests: Piano, Biking