Matthew Lin

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Education

Plano West Senior High School   Plano, TX
GPA: 4.54   Aug 2019 - May 2021

Work Experience

NanoExplorers Program at NanoTechnology Institute   University of Texas at Dallas
Research Intern   June 2019 - August 2019

- Performed research and conducted lab testing mentored by UTD professor
- Explored different synthesis processes of composite materials in order to maximize flexibility and strength
- Simulated crack analysis using Matlab software and wrote code to automatically compile test results and improve efficiency of data analysis
- All works contributed to state agency-funded research project

STEM Bridge Research Program   University of Texas at Dallas
Research Intern   June 2018 - July 2018

- Synthesized and tested a bioinspired water repellent to mitigate flood damage
- Results showed that lab samples displayed stronger performance than commercial products

Skills

Programming Languages:	Java, HTML, CSS, Javascript, Python
Tools and Technologies:	React, Matlab, Autodesk, Solidworks, GOM Correlate, Adobe Photoshop

Projects

TFT Roll Simulator *HTML, CSS, Javascript, React, Photoshop, Audacity*
https://github.com/mlin55/TFT-Rolling-Simulator
A web application that simulates the rolling mechanic from Teamfight Tactics, a popular strategy game.

Quizbowl Bonus Bot *Java Discord API, Python*
https://github.com/mlin55/Discord-Quizbowl-Bonus-Bot
Discord bot that automatically pulls bonuses from a database of over 40,000 questions and reads them to the user, compiling detailed statistics on the user's performance over the session. Built as a practice tool for my school's quizbowl club.

Awards

National Merit Jerry R. Junkins Memorial Scholarship   National Merit Scholarship
Corporation/Texas Instruments Foundation
Selected as part of roughly 1,000 students out of 1.5 million applicants to receive corporate-sponsored Merit Scholarship award; Valued at $5,000   March 2021

National AP Scholar   College Board
Received an average score of 4.7 on all (10) AP Exams taken   July 2020 - present

USACO Silver Division   USA Computing Olympiad
Advanced to second division of nationwide programming competition   Dec 2019

3-time Quizbowl National Qualifier   National Academic Quiz Tournaments
Back to back to back qualification for High School National Championship Tournament; Team ranked top 2% nationwide   March 2019 - present

2-time All-State Cellist   Texas Music Educator's Association
Placed in top 400 of 70,000 auditioners in the state; Ranked 6th in 2020 Philharmonic Orchestra   Nov 2019 - present