Thomas G Fan

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EDUCATION

Missouri University of Science and Technology (Missouri S&T) • Rolla, MO

- **B.S. Computer Science** • May 2023   **4.0 / 4.0 Cumulative GPA**
- Relevant Courses: Algorithms, Data Structures, Calculus (9th Grade)

SLMCS (St.Louis Modern Chinese School) • 4 Years • St.Louis, MO

- Diploma Completed 2016 with Chinese Fluency Certification

SKILLS

Programming Languages: •• Python, Java, C++ ••

Additional Tools: •• Git, Github, Vim, GBD, HTML ••

PROJECTS

Drone Blob Detection Python • 8/13/2019 - 1/1/2020

- Developed drone software able to detect objects from the surrounding background. Blobs and objects were counted by software through color contrast analysis. Worked in a subgroup for the Multirotor Robot Design Team drone project.

Website Management HTML/CSS • 8/13/2019 - 1/1/2020

- Frontend and backend design on website structure ensuring that the ACM web website is able to function properly. Worked with website formatting, and functionality of payment fees.
- Check it out - https://mstacm.org/

Chess and Snake Minigames *Java* • 2018

- Snake game builds in length and has score functionality and Chess games allowed PvP gameplay with score display.

CLUBS & EXPERIENCE

- Missouri S&T - ACM
  - ACM Competition   • 8/13/19 - Present
    Weekly meetings and occasional out-of-campus/on-campus coding competitions
  - ACM Web Design   • 8/13/19 - Present
    Learning full web development with ReactJS
- Multirotor Robot Design Team
  - Machine Learning   • 8/13/19 - Present
  - Designing code for flying autonomous drones in competition with numpy in python
- Coding Club Officer (High School) • 8/13/18- 5/23/19
- Math Contest Club Leader,Renaissance Officer, National Honor Society, Volleyball, Jazz Ensemble,Marching Band, Youth in Government, Speech and Debate

HONORS & ACTIVITIES

- Missouri Council of Teachers of Mathematics (MCTM)
  - *State Finals* : 2nd Place Power Question (2017), 4th Place Team (2016), 5th Place Team (2018)
  - 1st Place State Singles Problem Solving, 1st Place Team Qualifying Contest (2016)