William Kaiser

Class of 2022

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EDUCATION

- **The Academy of Science and Technology at College Park High School** — The Woodlands, TX
  STEM Magnet Program (see attached); W. GPA: 5.29; Class Rank 16 out of 819 — *Aug 2018 – May 2022*

EXPERIENCE

- **Valedor Partners** — Houston, TX
  Data Science Services (DSS) Intern — *May – Aug 2020 & 2021*
  Held a college-level internship for two summers. Consisted of programming, research, and data analysis. Highlights included: creating a block-chain based supply chain tracker, conducting exploratory data analysis for a savings and loan corporation, and modeling a green hydrogen plant.

LEADERSHIP

- **College Park Science Bowl** — The Woodlands, TX
  President — *May 2020 – Present*
  Responsible for tripling club membership. Implemented unique technological solutions allowing the club to meet and practice online with COVID-19 restrictions.

- **Scouts BSA** — The Woodlands, TX
  Eagle Scout Rank — *Aug 2018 – Jun 2021*
  Held numerous leadership and mentoring positions within the troop including: Webmaster, Quartermaster and Instructor.

AWARDS

- **National Merit Semifinalist**: Potential finalist with a selection index of 226.
- **AP Capstone Diploma Candidate**: Awarded for completing a two-year research program culminating in a year-long student-directed research paper, presentation, and oral defense. Received a 5 on the AP Seminar exam.
- **UIL Computer Science**: Won 1st place in Lockheed Martin's Code Quest's Rookie Division in 2021 and 2nd place in the Magnolia Invitational in 2022.
- **Eagle Scout Rank**: Earned in 2020. Completed a reforestation project for my Eagle Scout Project.
- **Congressional Award – Gold Medal**: Earned the highest award given by the US Congress for High School Students (518 students awarded nationwide in 2021). Included over 400 volunteer hours.
- **Science Fair Grand Award**: Won the District Grand Award in 2019. Built an machine-learning agent based on Alpha Zero's architecture to play the game of Hex, invented by John Nash. Also awarded the **Repsol Student Innovation STEM Award** for this project.
- **AP Scholar with Distinction**: Awarded in 2021. Took 17 AP courses in high school.
- **National Honor Society**: Inducted in 2021.

STATE COMPETITIONS

- **Science Fair**: Constructed a proof of concept model to explore the viability of using convolutional neural networks (CNNs) to identify wildfires from aerial photography.
- **Science Bowl**: Lead the regional team in 2021 and 2022 as team captain.
- **DECA**: Competed in Business Law and Ethics Team Decision-Making Event and Independent Business Plan Written Event in 2020 and 2022.
- **Quiz Bowl**: Advanced to state in 2021 as a first-time competitor.

PROGRAMMING LANGUAGES AND TECHNOLOGIES

- **Programming Languages**: Python, R, HTML, JavaScript, Java & Solidity

- **Technologies**: Django, React & Blockchain Studio