Richard Wang

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EDUCATION:

Princeton University   Princeton, NJ
B.S.E in Computer Science with a Minor in Quantitative Economics   *May 2028*
Relevant Coursework: Algorithms and Data Structures, Multivariable Calculus, Intro to Microeconomics

Clear Lake High School   **GPA: 5.95/5.00**   **SAT: 1600**   Houston, TX
Valedictorian in class of 582   *May 2024*
Recognitions: United States Presidential Scholars Candidate, Houston Mayor's Office of Education and Youth Engagement Certificate of Commendation, National Merit Finalist, President's Volunteer Service Award Silver

EXPERIENCE:

Tietronix Software Inc., *Software Engineer Intern*   *June 2024 – Aug. 2024*
- Developed machine learning models in Python that accurately segment lumbar spine MRI and CT scans
- Developed different GANs to synthesize MRI and CT spine images
- Integrated new model architectures to overcome limited medical data
- Boosted company's progress towards enhanced medical machine learning services

CLUBS & ORGANIZATIONS:

UNICEF Child Friendly Cities Initiative, *Youth Ambassador*   *Aug. 2022 – Current*
- Designed and filmed a 7-episode children's rights podcast, *Another Step for Youth*
- Co-authored a review paper on the impact of neurotechnology on human rights for *The Office of the United Nations High Commissioner for Human Rights (OHCHR)*
- Hosted 3 advocacy trainings for youth empowerment and community involvement (100+ attendance)
- Helped Houston receive UNICEF's recognition as the first 'Child Friendly City' in the US

Math National Honor Society, *Co-President*   *Aug. 2020 – May 2024*
- Directed weekly math club meetings and taught lessons on topics such as Number Sense and Combinatorics
- Organized Freshman Orientation recruitment booth, boosted membership to all-time high (60+)
- Hosted monthly Math League contests

DECA, Business Club, *President*   *Aug. 2020 – May 2024*
- Coordinated a district-wide networking campaign for increased outreach and collaboration
- Hosted business masterclass sessions to mentor students for both the district and state competitions
- Planned the yearly club schedule and led monthly club meetings

Programming Club, *Software Director*   *Aug. 2021 – May 2024*
- Planned the learning curriculum and taught weekly Python programming sessions
- Direct semester-long app development and medical machine learning projects
- Engage middle school students with programming

RESEARCH & ACTIVITIES:

University of Houston Mohan Lab, *Research Intern*   *June 2023 – May 2024*
- Researched different biomarkers and their spatial expressions in Lupus Nephritis kidneys to predict disease severity
- Created a novel Python co-localization analysis to improve future research methods
- Presided over 10 high school researchers' progress by providing feedback and guidance
- Presented research in joint laboratory meetings
- Co-author a research paper and contribute to a grant application

Moody Gardens SAVY, Volunteering Program, *Lead SAVY*   *June 2022 – Aug. 2023*
- Raised $6000+ for the *Association of Zoos and Aquariums Saving Animals From Extinction Program* (AZA SAFE)
- Mentored youth volunteers in presenting interactive displays to guests to inform them about endangered species and wildlife conservation
- Worked closely with biologists to develop an endangered species educational youth program
- Led 5 educational program trips (30+ youth) to protect wildlife

HONORS & AWARDS:

2022, 2023	US National Chemistry Olympiad Top 150 Finalist (Honors)
2024	USA Physics Olympiad Bronze Medalist
2023	International Research, MathWorks Math Modeling Challenge Honorable Mention (Top 6%)
2021-24	American Invitational Mathematics Examination (AIME) Qualifier
2023	USA Computing Olympiad Silver
2024	DECA International Career Development Conference (ICDC) Qualifier