

## **William Wang**

Rising Senior, Lynbrook High School, San Jose, CA

### **Autobiography:**

Hi, I'm William Wang, a rising senior at Lynbrook High School.

I first became interested in artificial intelligence at a summer camp last year, when I created a project that used multimodal machine learning to process video data in order to perform sentiment classification. Although it was challenging, I found joy in researching, reading papers, and testing my own machine learning architectures. For example, I was particularly fascinated by attention mechanisms after I read about Squeeze-and-Excitation Networks, and eventually was able to integrate them into a machine learning project about depression detection and classification, outperforming other papers on the dataset. When I heard about the USAAIO this year, I was eager to participate, and luckily made it onto the national team. I am very excited for the chance to compete internationally.

To me, machine learning is like raising a kid: it's about being patient and learning from mistakes. I don't judge my model's performance harshly, but I do celebrate when it generalizes well to new data. I want to use AI to make people happier and benefit the world.

Outside of AI research, I enjoy other activities such as competitive programming and math – especially solving integration problems in my free time. I also enjoy type racing, fencing, and table tennis, and I love watching YouTube videos of the best table tennis matches and different tricks. My favorite music genre is classical music, and I can play the piano, guitar, and trombone.