

# YOON KONG

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## EDUCATION

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Irvine High School (Class of 2025)

AP Scores: Comp Sci A (5); WH (5); Cal BC (5); Lang (5); USH (5); Physics I (5) Physics C Mechanics (4)

## SKILLS

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Programming Languages: C#, JavaScript, Java, Python

Software: Visual Studio Code, Unity

Languages: Fluent in English and Korean; Conversational in Spanish

## AWARDS

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Principal Honor Award (9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>)

- Awarded to students with a GPA of 3.5 or above

Scholastic Art & Writing Award (10<sup>th</sup>)

- Silver award in narrative essay category
- Honorary mention in narrative essay category

International Journal of Engineering & Technology (12<sup>th</sup>)

- Abstract accepted and research paper published (IJET 2024 Vol.16(3): 143-148)
- Research on "Using Deep Learning Algorithms to Predict the Closing Price of Stocks with Indication Features"

The International Conference on Artificial Intelligence in Info & Communication (11<sup>th</sup>)

- Abstract accepted and invited to present findings in France as the sole high school researcher

London Journal of Engineering Research (LJER) (12<sup>th</sup>)

- Reviewed a research paper titled "Markov Chain Analysis of Stock Market Prices of Coca-Cola Company in Nigeria" as an invited author and peer review editor

AMC 12 (11<sup>th</sup>)

- Achieved a score of 87 in AMC 12 and qualified for AIME 12

Global Game Jam at Jeonju University (12<sup>th</sup>)

- Developed a puzzle game, [STOP!!] where users draw walls in order to stop the enemy AI from fighting each other
- Collaborated with two artists and another programmer on team projects
- The only high schooler to participate and be declared a winner of the competition
- Went through a 72-hour game development process specifically for the competition

Ukraine Bloom Video Award (10<sup>th</sup>)

- Received a Certificate of Appreciation for a video highlighting the lives of Ukrainian soldiers in order to raise awareness of conditions on the ground during the outbreak of the Ukraine-Russia War.
- Interviewed Ukrainian soldiers and raised money for the war effort

AP Scholar with Distinction (11<sup>th</sup>)

- Granted to students who achieved a score of 3.5 or above on all AP exams taken
- Took 6 AP subject exams and achieved 5s across the board

## WORK EXPERIENCES

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### GongGames

*Game Development Team Intern (11<sup>th</sup>, 12<sup>th</sup>)*

- Assisted in taking minutes during game development meetings regarding idea generation, storyboarding, and game mechanics
- Experienced various aspects of the game development process such as storyboarding, sound design, and programming

### Ethics Center UCI Summer

*Selected Intern (11<sup>th</sup> - Present)*

- Selected as a high school intern following an application and interview process
- Worked closely with UC Irvine faculty mentors on issues such as peacebuilding, political psychology, and civil dialogue development
- Focused on research about the US global power and its effect on the world

## EXTRACURRICULAR ACTIVITIES

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### UCI Math Circle

*Member (9<sup>th</sup> - Present)*

- Tackled challenging math problems with a group of 40 fellow high school peers
- Attended weekly math puzzle meetings to improve mathematical problem-solving skills
- Hosted by the University of California Irvine

### Irvine Korean Parents Association & Volunteer Committee (IKPAVC)

*Volunteer (10<sup>th</sup> - Present)*

- Volunteered to foster a sense of community among South Korean residents in the Irvine area, centering around cultural and social activities
- Dedicated 3-5 hours weekly to agricultural work at organizations such as Shadetree Nursery and the Irvine Food Bank, which supplies food to local homeless shelters, universities, and hospitals
- Taught English and Math to students at local centers supporting immigrants

### Irvine Marching Band

*Clarinetist (9<sup>th</sup> - Present)*

- Participated in Irvine High School marching band practice sessions daily before school
- Performed weekly and took part in special concerts and marching contests
- Invited to participate at the California State Band Championships 2022, 2023, and 2024

### Varsity E-Sports Team

*Member (10<sup>th</sup> - Present)*

- Engaged in regular practice sessions for the game, Super Smash Brothers Ultimate
- Assisted the coach in training new members and helped members to analyze opponents and develop new gameplay strategies

### Face2Voice Text-To-Speech App

*Developer (11<sup>th</sup> - Present)*

- Developed a mobile web app utilizing text-to-speech (TTS) technology to assist individuals with speech impairments
- Integrated facial recognition AI, leveraging public code to detect emotions and convert text messages into voice, dynamically adjusting vocal tone based on the detected facial emotion

### **Film Analysis Club**

*Founder (11<sup>th</sup> - Present)*

- Founded a club with the intent of helping students improve their media literacy by watching and discussing films of different genres
- Held weekly meetings in which students watched a film of their choosing and then analyzed the themes, intentions, and main messages of the film

### **Irvine Machine Learning Club**

*Member (10<sup>th</sup> - Present)*

- Learned coding in Python and the basics of machine learning
- Initiated group projects related to machine learning such as predicting stock prices with time series data and data normalization and analyzing data for mobile app downloads of different categories

### **Irvine Board Game Club**

*Member (11<sup>th</sup> - Present)*

- Analyzed different board games to identify the design philosophy behind them
- Taught simple board game strategies to elementary school students after school

### **EDX Harvard Program**

*Online Participant (11<sup>th</sup> - Present)*

- Certified to successfully complete a course on [Algorithms: Design and Analysis] offered by Stanford
- Certified to successfully complete a course on [Google AI for Anyone]

### **Youth Action Team**

*Member (11<sup>th</sup> - Present)*

- Coordinated volunteer services available both inside and outside of school, connecting students to different types of community service opportunities
- Surveyed students to determine their interests and contacted related organizations and institutions based on these results

## **Short Story Writing**

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**Title: Sector 5**

- Summary: A sci-fi dystopian story set in the future, where the poor mysteriously disappear from the streets, only to be discovered as being used as a new energy source.

**Title: 7 AM**

- Summary: A time-loop story about a girl reliving the same morning repeatedly, unaware of why it's happening, until she eventually learns a valuable life lesson.

**Title: Narrative Essay (scholastic award)**

- Summary: This narrative essay is to emphasize the danger of internet trends and the spread of social media fame among young teen generation.