Justin Kim

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EDUCATION

Chadwick International School

Incheon, South Korea
August 2023 – June 2027

TECHNICAL SKILLS

- Python, C++

IB COURSES

- IB Math: Analysis & Approaches HL
- IB Physics HL
- IB Economics HL
- IB Chemistry SL
- IB Spanish B SL
- IB English Language & Literature SL

PROJECTS

Micro/Nanoplastic Exposure Mitigation for Hot Food & Beverages | *Startup Concept*   October 2025 – Present

- Proposed a startup idea aimed at reducing micro- and nanoplastic exposure during routine consumption of hot foods and beverages.
- Submitted the venture concept to the Diamond Challenge, an international entrepreneurship competition.

Senior-Friendly Self-Service Interface Initiative   August 2024 – Present

- Selected as a recipient of a competitive Chadwick International Upper School Grant to lead an independent research and development project focused on improving digital accessibility for seniors.
- Designed a senior-friendly self-service kiosk UI for users with low digital literacy, conducting user research and prototype testing in partnership with Senior Welfare Center, including interviews and hands-on usability experiments with 10+ seniors using real franchise-store kiosk.
- Currently developing a research paper analyzing usability findings and design implications for age-inclusive self-service systems.

"Noneun Creator" – Senior Digital Literacy Project   November 2024 - Present

- Initiated and led a digital literacy program aimed at enhancing senior citizens' ability to navigate online platforms and engage in digital society.
- Developed and deployed an interactive educational website using Bubble.io, featuring guided modules on mobile app usage, online content consumption, video communication, and daily digital tasks, with an emphasis on accessibility and intuitive design for elderly users.

Lost and Found Web APP – Chadwick International (CI) Innovative Program   August 2024 – Present

- Designed a web application to improve lost-item tracking on campus.
- Developing final version for release in summer 2025 under CI Innovation Program.

Project GPT+   February 2025 – June 2025

- Collaborated with Professor Thomas Miller (Northwestern University) on Project GPT+, an AI-based initiative developing a web platform that delivers interactive, personalized educational storybooks to help reduce learning inequities for students in low-resource communities, including those at a public school in Cebu, Philippines.
- Contributed as a member of the AI team to the design and optimization of fine-tuned GPT models for generating educational narratives and quizzes, applying prompt engineering techniques and preparing datasets tailored to subjects such as biology, chemistry, business, and environmental science.
- Evaluated generative models including GPT and Stable Diffusion for integrated text and image generation, and supported early NLP-driven analysis of user feedback to enable adaptive, personalized learning experiences.

LEADERSHIP

Innovation Council | *Member*   August 2023 - Present

- Organized and hosted a seminar for students in April 2024 in collaboration with Hansung University and Nepes Ark Co., titled *"Save the Smombies with AI and Mobility."*
- Planned and conducted a coding competition for middle school students in March 2025 to promote programming skills and engagement.

HONORS & AWARDS

John Locke Essay Competition | *Commendation*   September 2025
- Awarded for philosophical essay responding to the prompt: "Should we treat non-human animals well because they have rights, interests, neither, or both?"

The Haravard Crimson Global Quiz Bowl | *Honor Recipient - Individual*   October 2025

AMC | *AIME Qualifier, Top 5%*
- Maintained top 5% AMC performance across multiple years (2024-2025).
- Achieved consecutive AIME qualification from 2023 to 2025.

FedEX / JA International Trade Challenge | *Top 10 teams*   May 2025
- Recognized as one of the top 10 teams in the Korea Local Finals for presenting a circular upcycling business model addressing textile waste caused by high return rates in sustainable fashion.

International Logic Olympiad | *Gold Medal, Top 5%*   May 2025

Grant Program Winner   March 2025
- Awarded 1,000,000 KRW from the school's annual fund for proposing a senior-friendly kiosk UI design project.

WMTC | *3rd Place*   November 2023

VOLUNTEER & COMMUNITY SEVICE

Purun Gongbubang Government-registered Child Welfare Center | *AI Developer Volunteer*   January 2025 - Present
- Contributed to the development of an AI-based English learning program for children from low-income families, focusing on grammar-focused fine-tuning to support self-paced learning.
- Supported content design and prompt refinement to improve clarity, accuracy, and accessibility of English grammar explanations for elementary-level learners.
- Received recognition award for contributing to the development and teaching of an AI-based English learning program for students.

Soccer Event for the Visually Impaired | *Volunteer Assistant*   January 2025 - Present
- Supported the organization and smooth operation of a soccer match designed for visually impaired athletes, ensuring accessibility and safety during the event.