

EDUCATION

- **Yonsei University** Seoul, South Korea  
*B.S. in Computer Science* *Mar. 2024 – Present*
- **SMK Kuching High School** Sarawak, Malaysia  
*Science Stream; SPM(Malaysian Certificate of Education): 6A+ 3A 1A-* *January. 2017 – February. 2022*

AWARDS & SCHOLARSHIPS

- **Computer Science Merit-based Scholarship for International Students:** Yonsei University, Spring 2025
- **Global Basic Education Division (GBED) Merit-based Scholarship:** Yonsei University, Spring 2024
- **Malaysian Federal Scholarship (JPA-JKPJ):** Nationally-awarded scholarship for elite students to pursue STEM studies overseas.

RESEARCH INTERESTS

- **Computer Vision & Image Processing:** Developing efficient algorithms for compression, segmentation, and content-aware resizing to improve storage, transmission, and analysis of visual data.
- **Human-Computer Interaction (HCI) & User-Centered Systems:** Developing intuitive, accessible interfaces that enhance user experience and engagement across platforms.

EXPERIENCE

- **HackPPMK25 Innovation Challenge** Seoul, South Korea  
*Participant* *Aug. 2025*
  - **Innovation Challenge:** Collaborated with a team of Malaysian students in South Korea to design and propose technology-driven solutions for real-world problems during an intensive two-week hackathon.
- **Yonsei International Summer School (YISS)** Seoul, South Korea  
*Teaching Assistant* *Jun. 2025 – Aug. 2025*
  - **Academic Support:** Assisted professors with course delivery, including grading and facilitating discussions, while providing academic mentorship to help international students adapt to Yonsei University.
  - **Cross-Cultural Communication:** Fostered cross-cultural communication by working closely with teaching assistants from various cultural backgrounds.
- **Base Initiative** Online, Malaysia  
*Volunteer Mentor* *Jun. 2023 – Aug. 2023*
  - **Mentorship:** Mentored high-achieving Malaysian high school graduates through scholarship application process, providing expert guidance on essay refinement and interview techniques.
- **Malaysian Computing Challenge (MCC)** Online, Malaysia  
*Participant* *Oct. 2022*
  - **Computational Thinking Competition:** Participated in an annual online competition to solve algorithmic and logic-based problems within a limited time frame, strengthening problem-solving and computational thinking skills.

EXTRACURRICULAR ACTIVITIES

- **Yonsei Foreign Student Union (FSU)** Seoul, South Korea  
*Deputy Vice Commissioner for Administration* *Aug. 2025 – Present*
  - **Leadership:** Lead administrative operations and contribute to strategic planning, enhancing team coordination and supporting the execution of events.
- **Yonsei Foreign Student Union (FSU)** Seoul, South Korea  
*Operations Team Member* *Aug. 2024 – Dec. 2024*
  - **Event Management:** Planned and executed cultural and academic events for international students by coordinating logistics and collaborating effectively within a multicultural team.

- **KYCS Coding Buddy Program** Kuala Lumpur, Malaysia  
*Participant* *Jun. 2023 – Sep. 2023*
  - **Peer Programming Initiative:** Collaborated with fellow CS applicants in a peer programming initiative, developing software projects through bi-weekly progress tracking and documentation.
- **Malaysia Scout Association** Kuching, Malaysia  
*Junior Troop Leader* *Feb. 2022 – Dec. 2022*
  - **Leadership:** Led a junior scout troop, coordinating weekly activities with school administration, and gained international experience by serving on the committee for a large-scale international camp.

## PROJECTS

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- **Add2Cart Marketplace (Hackathon Project)**
  - Contributed to UX/UI design and frontend development for a student platform using Figma and React, creating intuitive user flows for listings, search, and a multi-language interface.
- **Quadtree Image Compression Project**
  - Engineered a Python-based Quadtree structure and recursive algorithm for lossy image compression by merging similar-colored regions using customizable thresholds.
- **Image Segmentation Project**
  - Developed a Python program that transforms an image into a graph and applies a modified Kruskal's algorithm to segment images by clustering similar pixels.
- **Image Resizing using Data Structures**
  - Engineered iterative and recursive Python algorithms using doubly linked lists to resize images by identifying and removing low-energy seams.

## PROGRAMMING LANGUAGES & TOOLS

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- Python, C/C++, Java, SQL, JavaScript, HTML, Figma, Git, Linux

## LANGUAGES

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- **English:** Native (CEFR C1)
- **Chinese:** Native
- **Korean:** Fluent (TOPIK Level 5)
- **Malay:** Fluent