

# ANDRIAN WU

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## Skills

- Machine Learning | AI | Deep Learning | C | C++ | C# | Java | Python | OOP | HTML | CSS | JavaScript | TypeScript | NodeJS | ReactJS | SQL
- Git | Unity 2D | Unity 3D | Blender | OpenGL | Game Development | PyTorch | OpenCV | TensorFlow | Scikit-Learn | Visual Studio
- Computer Vision | Linux | Verilog | Augmented Reality | Selenium | Canva | ChatGPT | English | Chinese | Indonesian | Japanese

## Experience

- English Language Teaching Assistant**      Nan Yang and Jia Chang Elementary School      Kaohsiung, Taiwan      09/2023 - 06/2024
- Introduced Indonesian culture to students using basic English and PowerPoint, covering topics such as food, cities, currency, and New Year celebrations.
  - Organized various engaging activities including drawing, math exercises, and writing in Indonesian.
  - Prepared different themes for each lesson, such as Indonesian animals, features of our primary school, lifestyle, and cost of living.
- Undergraduate Research Assistant**      National University of Kaohsiung      Kaohsiung, Taiwan      05/2023 - 12/2023
- Advisor: Bao Rong Chang  
Topic: THSR Booking by Voice Recognition

## Projects

- Hash Slinging Slasher (Unity 3D) Horror Game      Developed with Unity and Blender in C#      05/2024 - 06/2024
- Embark on a chilling journey through a dark environment, using a lantern to guide you as you search chests for a hidden key. Dodge enemies, collect weapons, and unlock the exit to escape the horrors that await.
- Dehazing Video Processing      Developed with OpenCV and NumPy in Python      04/2024 - 05/2024
- Dark Channel Prior:** Estimates atmospheric light and fog density to enhance clarity.
  - Guided Filtering:** Refines the transmission map to maintain image details and edges.
- THSR Booking by Voice Recognition      Developed with Selenium and Google Cloud Speech-to-Text in Python      05/2023 - 12/2023
- Voice Commands:** Users can specify travel details such as station, date, time, and ticket type through spoken instructions.
  - Web Automation:** Uses Selenium to navigate the THSR booking site and complete reservations.
- Counterfeit Money Detection System      Developed with YOLOv5 in Python      04/2023 - 06/2023
- Automated Detection:** Utilizes YOLOv5 to automatically detect and identify specific regions on banknotes.
  - Image Cropping:** Crop these regions based on detected bounding boxes and save the cropped images to a designated directory.
- Box Float Game      Developed in Java      05/2022 - 06/2022
- Developed a Java-based game inspired by Flappy Bird, featuring a minimalist box-style design. Implemented using Java's Swing library, the game utilizes key event listeners for user interaction.

## Education

- National University of Kaohsiung (NUK)**      Kaohsiung, Taiwan      09/2020 - 06/2024
- Bachelor of Science Degree in Computer Science

## Organization

- NUK Indonesian Students Association (Event Organizer Leader)**      Kaohsiung, Taiwan      09/2021 - 06/2022
- Planned and executed diverse events including welcoming and farewell parties, game events, and barbeque gatherings, catering to varied interests within the student community.
  - Developed leadership and teamwork skills through managing diverse projects and handling challenges effectively.
  - Coordinated logistics, budgeting, and scheduling for events, ensuring seamless execution and adherence to timelines.

## Others

- Test of English for International Communication (TOEIC) Score:** 905/990 (2023)
- Collegiate Programming Examination (CPE) Score:** 2/7 (Ranking ratio: 29.4%) (2022)