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

Education

National University of Kaohsiung (NUK) *Kaohsiung, Taiwan* **09/2020 - 06/2024**

Bachelor of Science Degree in Computer Science

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.

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)**