

# CHAW THIRI SAN

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Yonghyeon-dong, Michuhol-Gu, Incheon, Korea

## EDUCATION

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**BS, Integrated Systems Engineering, INHA University (August 2022 – Present)**

- GPA: 4.35/4.5 (Valedictorian and Honor Student)
- Full Tuition Global Scholarship for maintaining a GPA of 4.3+

## ACHIEVEMENTS

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| • Global Scholarship 1 (100% tuition fees waiver) | 2022 Fall Semester                       |
| • Global Scholarship 2 (100% tuition fees waiver) | 2023 Spring Semester                     |
| • Inha Program Scholarship (\$300)                | 2023 Fall Semester                       |
| • Global Scholarship 2 (50% tuition fees waiver)  | 2023 Fall Semester                       |
| • Global Scholarship 2 (100% tuition fees waiver) | 2024 Spring & Fall, 2025 Spring Semester |

## CERTIFICATES

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|---|-------------------|
| • <a href="#">Machine Learning Specialization</a>                                     | DeepLearningAI    |
| • <a href="#">DevNet Associate</a>  | Cisco             |
| • <a href="#">CCNA: Introduction to Networks</a>                                      | Cisco             |
| • <a href="#">CyberOps Associate</a>  | Cisco             |
| • <a href="#">TensorFlow Keras Bootcamp</a> , <a href="#">OpenCV Bootcamp</a>         | OpenCV University |
| • MATLAB Onramp , <a href="#">MachineLearning Onramp</a>                              | MathWork          |
| • <a href="#">LLMOps: Building Real-World Applications With Large Language Models</a> | Udacity           |

## EXPERIENCES

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<b>Tutoring for software programming in Python</b>	2023 Sept~ December
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## LANGUAGES

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**Burmese:** Native proficiency, **English:** Advance level proficiency (IELTS 7.5), **Korean :** Pre-intermediate proficiency

## COMPUTER SKILLS

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**Programming:** Python, SQL, Matplotlib, Numpy, Pandas, OpenCV, MATLAB, APIs, Git, Tensorflow

### Platforms

Github account : <https://github.com/chaw-thiri>

Blog : <https://medium.com/@chawthirisan>

Linkedin Profile <https://www.linkedin.com/in/chaw-chaw/>

## PROJECTS

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**Real-Time Face Detection with Viola-Jones**

Built a robust real-time face detection model using Haar features and cascade classifiers. Trained on a curated dataset of 900 face images and 3700 non-face images. (<https://github.com/chaw-thiri/Face-Detection-using-Viola-Jones-VJ-Algorithm>)

### **Face Tracking using CSRT Trackers**

Created a face tracking system using OpenCV's CSRT tracker optimized with preprocessing techniques for low-resource environments. ([https://github.com/chaw-thiri/object\\_tracking\\_using\\_csrt\\_tracker](https://github.com/chaw-thiri/object_tracking_using_csrt_tracker))

### **OCR on Postal-Packages**

Multilingual OCR system for extracting client ID, barcode, and weight in Korean and English using Tesseract, EasyOCR, and PaddleOCR. Utilized parallel processing to accelerate image preprocessing and OCR tasks across large datasets. ([https://github.com/chaw-thiri/Digital\\_Signal\\_Processing/tree/main](https://github.com/chaw-thiri/Digital_Signal_Processing/tree/main))

### **Smart Travel Assistant**

Python-based assistant integrating route generation, weather prediction, accommodation search, and voice navigation using external APIs. (<https://github.com/chaw-thiri/AI-Travel-Guide>)

### **AI-powered Disaster Response Support System**

Developing an AI-driven system to assist with post-disaster damage assessment and survivor detection using image segmentation methods. The system processes aerial footage from drones to classify building damage and identify survivors trapped in rubble. Deployed on Google Cloud Platform for real-time inference, the system is designed for offline operation on Raspberry Pi devices, enabling field use in disaster zones with limited connectivity. (<https://github.com/chaw-thiri/disaster-mapping-segmentation>)

### **Earthquake Prediction Model**

This project explores the potential of using Convolutional Neural Networks (CNNs) to predict future earthquakes based on historical seismic data, including magnitude, latitude, longitude, and time of occurrence. We apply regression models to estimate both the magnitude of future quakes and the depth of resulting cracks. ([https://github.com/chaw-thiri/earthquake\\_detection\\_-\\_crack\\_depth\\_estimation](https://github.com/chaw-thiri/earthquake_detection_-_crack_depth_estimation))

### **Clickbait Detector**

Developed an AI-powered tool to classify news headlines using DistilBERT, achieving high accuracy in clickbait detection. Integrated web scraping (Selenium, BeautifulSoup), News API, and Streamlit for real-time predictions and interactive EDA. ([https://github.com/chaw-thiri/clickbait\\_detection](https://github.com/chaw-thiri/clickbait_detection))

## **PAPERS**

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### **Smart Precision Weeding In Agriculture Using 5IR Technologies**

(<https://www.mdpi.com/2079-9292/14/13/2517>)

First author contribution | Co-authored with Prof. Vijay Kakani

- Conducted an in-depth review on how 5IR technologies (AI, robotics, IoT, 5G, edge computing) are transforming weeding in agriculture. Highlighted sustainable, data-driven practices that reduce herbicide use and enhance crop yield. Proposed scalable solutions for global adoption, especially in low-resource settings.