



PROFILE

Motivated Computer Engineer with excellent academic performance and practical experience in AI and computer vision projects. I have hands-on experience building complete systems, including data collection, model training, edge deployment, and web dashboards. I am a polite, responsible, and reliable team member who takes tasks seriously and completes assigned work with commitment. I am strongly interested in applied AI research and real-world problem solving.

AYE CHAN AUNG

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ayechanaung.dec27@gmail.com

418/6.NangLae,MueangChaiRai

<https://github.com/AyeCham>

<https://ayecham.github.io/portfolio/>

SKILLS

- Programming
 - Python,
 - SQL,
 - JavaScript
- Data Engineering
 - ETL/ELT
 - Apache Airflow
 - Kafka, Spark
- AI & CV
 - YOLOv8/YOLOv11
 - OpenCV
 - PyTorch
 - TensorFlow
- Backend
 - FastAPI
 - Express.js
 - REST APIs
- Database
 - MySQL
 - MongoDB

EDUCATION

MAE FAH LUANG UNIVERSITY(MFU), CHIANG RAI, THAILAND

Bachelor of Engineering (Computer Engineering)

2022 – Present

GPA: 3.84 / 4.00

Relevant Coursework:

- Computer Vision
- Artificial Intelligence
- Embedded Systems
- Database Systems
- Web Application Development
- Software Engineering

UNIVERSITY OF TECHNOLOGY (YATANARPON CYBER CITY), MYANMAR

Precision Engineering Program

December 2015 – 2021 (Incomplete due to COVID-19 and political situation)

Activities & Achievements:

- Competed in Clash of Robots 2018, advanced to Quarter Final
- Built strong foundations in engineering mathematics, programming, and robotics

AYE CHAN AUNG

AI/ML Engineer

PROFESSIONAL EXPERIENCE

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INTERN - AI / COMPUTER VISION ENGINEER

CAS Cogniser (Thailand), Chiang Mai

January 2026 - April 2026 (Ongoing)

- Developed AI and computer vision systems using YOLO-based models
- Worked on data preparation, model training, testing, and deployment
- Integrated edge devices with web dashboards for real-time monitoring and history tracking
- Collaborated well with team members and followed project requirements

INTERN - AI / COMPUTER VISION ENGINEER

CAS Cogniser (Thailand), Chiang Mai

June 2025 - July 2025

- Built a Raspberry Pi 5 + Pi HQ Camera pest-detection system; curated a Thailand-focused dataset and sent Discord webhook alerts.
- Developed a mini-market food/beverage detector on Jetson Orin Nano; performed real-time counting and pushed metrics to a web dashboard.
- Implemented RTSP CCTV staff-customer analytics (detection, engagement duration, pairwise distance); logged to CSV, handled stream resets, and served a live Flask dashboard with sentiment.

TRANSCRIBER (CONTRACT)

Productive Playhouse – Remote (California, United States)

October 2023 - Dec 2024

- Performed speech-to-text transcription for YouTube and multimedia content
- Worked on audio segmentation and transcription accuracy improvement
- Followed strict quality guidelines and confidentiality requirements
- Delivered consistent, high-quality outputs under remote contract work conditions

JUNIOR ROBOT DESIGNER

IYI Robot, Myanmar

June 2020 - December 2020

- Designed educational robot kits for children's STEM learning
- Assisted in mechanical design and basic programming for robotics platforms
- Gained early experience working in a startup environment

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AI/ML Engineer

RESEARCH & PUBLICATIONS

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COW POSTURE DETECTION IN CATTLE

- Submitted to EEECS Thailand Conference, Chiang Mai 2025
- Built a posture detection system for cattle using YOLOv8 and YOLOv11 models
- Detected four cow postures: standing, lying, grazing, and mounting
- Achieved mAP@50 up to 0.888 with YOLOv8s
- This research supports automated estrus detection and livestock health monitoring

FINAL YEAR PROJECT

Estrus Detection System for Dairy Cows
(Computer Vision-Based)

- Developed a computer vision system to support estrus detection in dairy cows
- Used CCTV-style video input and YOLO-based models for posture detection
- Performed experiments, evaluation, and error analysis beyond the published paper
- Designed the system for future real farm deployment

KEY PROJECTS

AI-POWERED FERTILIZER BAG COUNTING SYSTEM

- Designed and implemented an end-to-end AI system to detect, classify, and count fertilizer bags in real time
- Platform: reCamera (SenseCraft) with edge AI processing
- Implemented full system architecture including camera integration, edge inference, display interface, and web dashboard
- Integrated internet connectivity for data synchronization and report access via web portal

CUSTOMER SENTIMENT & ENGAGEMENT MONITORING SYSTEM

- Detected customers and staff using uniform-based identification
- Measured customer-staff interaction time based on distance thresholds
- Identified staff members by assigned zones (e.g., Area A → Staff 1)
- Visualized live interactions and historical engagement data on a dashboard

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KEY PROJECTS

INSECT DETECTION & ALERT SYSTEM

- Platform: Raspberry Pi 5 + HQ Camera
- Trained a custom insect detection model using IP102 dataset and Thailand-specific insect classes
- Removed non-local insect classes to improve precision
- Real-time detection with automated alerts sent to Discord upon insect detection

SMART STORE MONITORING SYSTEM

- Platform: NVIDIA Jetson Nano (Orion) + Webcam
- Detected, identified, and counted store products (water bottles, soda, cola, etc.)
- Built a web-based dashboard with real-time counts and historical change logs
- Designed for inventory monitoring and loss prevention

LUNGE API - LEGAL ASSISTANCE CHATBOT

- Built a multilingual chatbot to assist workers in Thailand.
- Implemented conversation flows for minimum wage lookup by job or location.
- Integrated profession datasets, illegal job awareness, and private DM support.
- Designed a scalable structure for future deployment to LINE and web platforms.

CERTIFICATIONS & ACHIEVEMENTS

- Huawei Cloud Developer Certification (HCCDA - Tech Essentials)
 - Valid until February 14, 2028
- MathWorks Training Services - MATLAB Onramp
 - Completed February 1, 2024
- MathWorks Training Services - Simulink Onramp
 - Completed September 13, 2024
- MathWorks Training Services - Control Design Onramp with Simulink
 - Completed September 23, 2024
- Code for Hope Hackathon - Participant
 - Chiang Mai, June 26-27, 2025