

Lu Phone Maw

094-978-7948 | luphonemaw09@gmail.com | [LinkedIn](#) | github.com/luphone04

EDUCATION

Assumption University

Bachelor of Science in Computer Science

Samut Prakan, Thailand

Jun 2022 – Oct 2025

EXPERIENCE

Undergraduate Research

Assumption University

Oct 2024 – Mar 2025

Samut Prakan, Thailand

- **Fine-tuned** Llama 3 8B and Mistral 7B for aspect extraction + sentiment; achieved 95.4% F1 and 89.3% accuracy, +3.14% over SOTA baselines.
- **Implemented** QLoRA/4-bit quantization (A100) with Unsloth, reducing memory up to 8× across 8 configs with minimal performance loss.
- **Designed** InstructABSA-style **prompts** with domain-specific examples for restaurant and laptop review domains, enabling LLMs to outperform traditional fine-tuning approaches on SemEval 2014 benchmark dataset.

LLM Engineer — Automation Engineer

Myat Pwint Book Publishing House

May 2025 – Oct 2025

Samut Prakan, Thailand

- **Implemented** semantic natural-language book search for a publishing platform using Hugging Face multilingual vector model to embed metadata of 3,000+ books in Supabase pgvector with cosine-similarity ranking **enabling faster book discovery**.
- **Built** an n8n automation that ingests new books, calls Gemini (OpenRouter) to generate copy + posters, stores assets in Supabase, auto-publishes to social media, and supports human-in-the-loop approval with newsletter triggers **reducing manual publishing work**.

PROJECTS

Churn Classification MLOps Pipeline | [GitHub](#)

- **Performed** EDA + feature engineering on 7,043 records; encoded 21 raw features into 30 model-ready features and identified key churn drivers.
- **Trained** Random Forest/LightGBM/XGBoost; optimized XGBoost with Optuna to reach 94.1% recall (+9.9%) with MLflow tracking.
- **Deployed** a FastAPI + Gradio service (5ms latency) with Docker + GitHub Actions CI/CD to AWS ECS Fargate.

Pneumonia Detection from Chest X-Rays | [GitHub](#) | [Live Demo](#)

- **Trained** an EfficientNet-B0 classifier on 5,200+ chest X-rays using two-stage transfer learning (frozen → fine-tuned); achieved 90.5% accuracy and 98.2% recall, prioritizing patient safety by minimizing missed diagnoses.
- **Implemented** Grad-CAM visualizations to highlight lung regions driving predictions, enabling clinician validation of model decisions for medical AI transparency.
- **Deployed** full-stack inference pipeline (FastAPI REST API + Streamlit UI) to Hugging Face Spaces with GitHub Actions CI/CD and ONNX export for cross-platform compatibility.

Document Intelligence System with Hybrid Search & Citations | [App](#)

- **Built** a RAG system with hybrid search (Vector + BM25) and Reciprocal Rank Fusion for document Q&A with citation tracking, using LangChain, GPT-4, ChromaDB, and Sentence Transformers.
- **Deployed** full-stack app (FastAPI + Streamlit) to Hugging Face Spaces with Docker, implementing RAGAS evaluation framework to measure answer faithfulness and relevance.

TalkToData – AI Data Analysis SaaS | [GitHub](#) | [Live Demo](#)

- **Developed** an agentic AI “data analyst” SaaS using OpenAI Agents SDK + GPT-4o (ReAct) that turns CSV/Excel + natural-language questions into computed insights and charts via tool calls (pandas, aggregations, matplotlib) on Next.js + FastAPI + Supabase.

TECHNICAL SKILLS

Languages: Python, SQL, TypeScript, JavaScript

ML/LLM: PyTorch, Scikit-learn, XGBoost, LightGBM, Hugging Face Transformers, Computer Vision, PEFT/QLoRA, Unsloth, Prompt Engineering, Llama 3, Mistral, GPT-4, Gemini, ONNX

RAG & Search: LangChain, RAGAS, Vector Search, BM25, Hybrid Search, Reciprocal Rank Fusion

Data & Databases: PostgreSQL, Supabase, pgvector, ChromaDB

MLOps & Deployment: Docker, MLflow, wandb, CI/CD, FastAPI, AWS, GCP, n8n, Git



မျက်ပွင့်
Myat Pwint

February 4, 2026

It is my great pleasure to recommend **Mr. Lu Phone Maw** for professional opportunities in software development, artificial intelligence, and related technology roles.

My name is **U Myo Min Than**, and I am the owner of **Myat Pwint Publishing House**, located in **Kyaut Myawn Township, Yangon**. I worked closely with Lu Phone Maw during the development of our web-based systems, where he played an important role in the **Myat Pwint Web Development process**.

During his time working with us, Lu demonstrated strong technical ability, analytical thinking, and a genuine interest in using software and data-driven technologies to solve practical problems. He contributed actively to system development, handled complex tasks responsibly, and approached technical challenges with structured problem-solving and attention to detail.

Lu also demonstrated a strong professional attitude. He is hardworking, disciplined, dependable, and open to feedback. He communicates clearly, works well with others, and approaches challenges with maturity and persistence. These qualities made him a reliable contributor to our projects and someone I trust in a professional environment.

Based on my experience working with Lu, I believe he has the technical foundation, work ethic, and problem-solving ability to contribute effectively in software engineering, artificial intelligence, automation, backend development, or other technology-focused roles.

I recommend Lu Phone Maw without reservation and believe he would be a valuable addition to a technology team. Please feel free to contact me should you require any further information.

Sincerely,

U Myo Min Than

Owner

Myat Pwint Publishing House

Kyaut Myawn Township, Yangon

myatpwintpublishing@gmail.com

To Whom It May Concern,

I am writing to recommend Mr. Lu Phone Maw for software engineering and related technical positions. I supervised him in Senior Project II in the Computer Science program, where he served as the Lead Software Engineer of the team.

The project focused on developing a digital publishing management system intended to modernize and optimize traditional publishing workflows through a centralized online platform. The system was designed to manage manuscript submission, editorial review, approval procedures, and publication operations in a structured and efficient manner. Within this project, Lu Phone Maw was responsible for system architecture design, backend development, and overall technical coordination.

In backend development, he implemented core business logic using Next.js API routes and integrated secure authentication mechanisms with token verification. He developed key system components, including manuscript validation, payment workflow integration, inventory management APIs, and automation triggers. He also implemented role-based access control mechanisms to maintain proper authorization management across different user roles. His work ensured system stability, security, and logical consistency across modules.

In addition to technical development, he demonstrated leadership in sprint planning and feature prioritization. He consistently reported project progress and ensured that the system reached a production-ready level with appropriate deployment and infrastructure configuration.

Lu Phone Maw has demonstrated strong analytical ability, technical depth, and responsibility in complex system-level design. His backend skills, leadership, and professional maturity would make him a valuable contributor to an engineering team. I recommend him without reservation.

Sincerely,

Tianai Tang

Full-Time Lecturer

Vincent Mary School of Engineering, Science and Technology

Assumption University, Thailand

tangtianai@au.edu





ASSUMPTION UNIVERSITY of Thailand

Admission No. 6511157
Name MR. LU PHONE MAW
Surname --
Date of Birth 15/09/2004
Date of Admission 06/06/2022
Previous Degree HIGH SCHOOL EQUIVALENCY CREDENTIAL
Institution OFFICE OF THE STATE SUPERINTENDENT
OF EDUCATION

FACULTY OF SCIENCE AND TECHNOLOGY
MAJOR : COMPUTER SCIENCE
MAJOR CONCENTRATION : INFORMATICS AND DATA SCIENCE

Degree Level BACHELOR DEGREE PROGRAM
Date of Graduation 31/10/2025
Degree Bachelor of Science (Computer Science)
AWARD Cum Laude

COURSE NO.	COURSE TITLE	CR. GRD.	COURSE NO.	COURSE TITLE	CR. GRD.	COURSE NO.	COURSE TITLE	CR. GRD.
YEAR/SEMESTER 2022/01			CSX3009	ALGORITHM DESIGN	3 B-			
BG14031	PROF ETHICS SEMINAR I	0 S	CSX4207	DECISION SUPPORT & RECOMM SYS	3 A			
CSX2003	PRINCIPLES OF STATISTICS	3 B+	CSX4208	DEEP LEARNING	3 B			
CSX2008	MATHS FOUND FOR COMP SCIENCE	3 C	CSX4212	DATA ANALYTICS	3 A-			
CSX3001	FUND OF COMP PROGRAMMING	3 A	CSX4213	COMPUTER VISION	3 A-			
ELE1001	COMMUNICATIVE ENGLISH I	3 A-	CSX4281	ST IN INTELLIGENT SYS DEVELOP	3 A			
ITX3002	INTRO TO INFORMATION TECH	3 A-	ELE2001	ADVANCED ACADEMIC ENGLISH	3 C			
SEMESTER	015 CR. 050.25 G.PTS. 3.35 GPA.		SEMESTER	021 CR. 069.75 G.PTS. 3.32 GPA.				
CUMULATIVE	015 CR. 050.25 G.PTS. 3.35 GPA.		CUMULATIVE	090 CR. 303.00 G.PTS. 3.37 GPA.				
YEAR/SEMESTER 2022/02			YEAR/SEMESTER 2024/02					
BBA1001	BUSINESS EXPLORATION	3 B-	BG14036	PROF ETHICS SEMINAR VI	0 S			
BG14032	PROF ETHICS SEMINAR II	0 S	CSX3007	COMPUTER ARCHITECTURE	3 C			
CSX2006	MATH AND STAT FOR DATA SCIENCE	3 C	CSX3008	OPERATING SYSTEMS	3 C+			
CSX3002	OBJECT-ORIENTED CONCEPTS		CSX3010	SENIOR PROJECT I	3 B+			
AND PROG		3 B-	CSX4202	DATA MINING	3 B+			
ELE1002	COMMUNICATIVE ENGLISH II	3 A	CSX4205	BIG DATA ANALYTICS	3 A-			
IBE1122	ACCOUNTING FOR ENTREPRENEURS	3 C+	CSX4210	NATUR LANG PRO & SOCIAL				
MA1200	MATHEMATICS FOR BUSINESS	3 B	INTERACT		3 B+			
SEMESTER	018 CR. 050.25 G.PTS. 2.79 GPA.		GE1302	ECOLOGY AND SUSTAINABILITY	3 B			
CUMULATIVE	033 CR. 100.50 G.PTS. 3.05 GPA.		SEMESTER	021 CR. 062.25 G.PTS. 2.96 GPA.				
YEAR/SEMESTER 2023/01			CUMULATIVE	111 CR. 365.25 G.PTS. 3.29 GPA.				
BG14033	PROF ETHICS SEMINAR III	0 S	YEAR/SEMESTER 2025/01					
CSX3003	DATA STRUCTURE AND ALGORITHMS	3 A	BG14037	PROF ETHICS SEMINAR VII	0 S			
CSX3005	COMPUTER NETWORKS	3 C+	BG14038	PROF ETHICS SEMINAR VIII	0 S			
ELE2000	ACADEMIC ENGLISH	3 W	BHT3404	FOOD AND BEVERAGE SERVICE	3 B+			
GE2102	HUMAN HERITAGE & GLOBALIZATION	3 A	CSX3011	SENIOR PROJECT II	3 A-			
ITX2005	DESIGN THINKING	3 A-	CSX4107	WEB APPLICATION DEVELOPMENT	3 A			
ITX2007	DATA SCIENCE	3 A-	CSX4515	GAME DESIGN AND DEVELOPMENT	3 A			
SEMESTER	015 CR. 053.25 G.PTS. 3.55 GPA.		CSX4609	ST IN AI FOR BUSINESS	3 A-			
CUMULATIVE	048 CR. 153.75 G.PTS. 3.20 GPA.		GE1409	THAI LANG FOR INTERCULTUR COMM	3 A			
YEAR/SEMESTER 2023/02			MU1001	MUSIC APPRECIATION	3 B+			
BG14034	PROF ETHICS SEMINAR IV	0 S	SEMESTER	021 CR. 078.00 G.PTS. 3.71 GPA.				
CSX2009	CLOUD COMPUTING	3 A	CUMULATIVE	132 CR. 443.25 G.PTS. 3.36 GPA.				
CSX3004	PROGRAMMING LANGUAGES	3 A-	TOTAL CREDITS COMPLETED = 132					
CSX3006	DATABASE SYSTEMS	3 A-	COURSE REQUIREMENTS FULFILLED					
CSX4203	MACHINE LEARNING	3 A-						
CSX4615	ST IN BUS INSIGHTS & VISUAL	3 B+						
ELE2000	ACADEMIC ENGLISH	3 A						
GE2202	ETHICS	3 A						
SEMESTER	021 CR. 079.50 G.PTS. 3.79 GPA.							
CUMULATIVE	069 CR. 233.25 G.PTS. 3.38 GPA.							
YEAR/SEMESTER 2024/01								
BG14035	PROF ETHICS SEMINAR V	0 S						

TRANSCRIPT GUIDE PRINTED ON REVERSE

Date Issued: November 6, 2025

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Au

Dr. Soonthorn Pibulcharoensit
University Registrar

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มหาวิทยาลัยอัสสัมชัญ
ASSUMPTION UNIVERSITY

Reg. C. 07842/2025

GRADUATION STATUS CERTIFICATION

This is to certify that as of October 31, 2025.

Mr. Lu Phone Maw

Adm. No. **651-1157**

has completed 132 credits with a cumulative grade point average of 3.36

and thus has fulfilled all the requirements towards a

Bachelor degree in Science,

majoring in Computer Science

from Assumption University of Thailand.

I also certify that English is the medium of instruction at Assumption University.

Date of issue : November 6, 2025

(Dr. Soonthorn Pibulcharoensit)

University Registrar

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