

Aye Moh Moh Khin

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EDUCATION

King Mongkut's Institute of Technology Ladkrabang

Bangkok, TH

Bachelor of Engineering in Computer Engineering

Expected to be graduated at early 2027

Relevant Coursework: Data Structures and Algorithms, Database Systems, Data Analytics, Web & Software Development, User Experience and User Interface Design, Artificial Intelligence

Awards & Honors: Tuition Fees Waiver Scholarship

TECHNICAL PROJECTS

Predictive Analytics for bus travel time & route optimization

Semester 1 2025

- Engineered a predictive data pipeline to optimize urban travel times, analyzing large-scale GPS probe data to model traffic patterns in Bangkok.
- Utilized **Python** libraries (Pandas, scikit-learn) for data processing and analysis; **XGBoost** for predictive travel time modeling; **HDBSCAN** for real-time congestion detection; and **Streamlit** for dynamic visualization.

Predictive Analytics for time-series household energy consumption

September 2025

- Collaborated in creating an advanced web application for AI & Sustainability Hackathon to forecast household energy consumption.
- Developed and deployed using **Prophet**, **LightGBM** and used **Python**, **Streamlit**, **Pandas**, and **Docker** for the core framework.

Hospital Queue Management System

Semester 2 2024

- Created a hospital queuing system web application to manage patient flow, optimize wait times, and improve administrative efficiency.
- Developed the application using the **MERN stack** (React, HTML/CSS/JS), managed workflow with **Jira** and **Git**.

SKILLS & CERTIFICATIONS

- **Programming Languages:** Python, C, SQL, JavaScript, HTML, CSS, React
- **Tools and Technologies:** Git, Jira, Figma, Jupyter Notebook, Docker
- **Data Analysis & Modeling:** Statistical Analysis, Feature Engineering, Time Series Analysis, Model Evaluation, LightGBM/XGBoost, Clustering (HDBSCAN/K-Means), Visualization: Power BI, Streamlit, Plotly, Matplotlib.
- **Certifications:** Machine Learning Specialization, Python for Everybody Specialization (Coursera)

ADDITIONAL ACTIVITIES

- **AI powered KYC Hackathon by CDG Group (2025):** Qualified as a **finalist team**, showcasing creative and innovative solutions for secure KYC policies for smart public services.
- **42 Bangkok C Pisciner (2024):** Successfully completed intensive **C programming bootcamp** and gained hands-on experience with **Shell** scripting and **Git**.