# Watcharapon Weeraborirak

## AI Engineer & Data Engineer

### ABOUT ME

Hi there! I'm an AI Engineer and Full-Stack Developer from Bangkok, Thailand.
With a Bachelor's degree in Computer Engineering from Southeast Asia University, I've built a strong foundation in AWS services and tech development.

### CONTACT


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094-149-9661

Watcharapon Weeraborirak

https://watcharapon.dev


### EDUCATION

2020

**Bachelor's degree**

Southeast Asia University (SAU)
Education: Bachelor's degree 4 years
Major: Computer Engineering (IoT)
GPA: (GPA) 3.21

### EXPERTISE

- Python
- Design Architecture
- Project management
- Critical thinking
- Problem solving

### LANGUAGE

**Thai**

**English (Voxy Proficiency 700 scored)**

## EXPERIENCE

**2022-07 -> Present**

### Thaicom public company limited

349 SJ Infinite 1 Business Complex, 28th Floor Vibhavadi Rangsit Rd, Chatuchak, Chatuchak, Bangkok 10900 & LLK Mother center

### AI Engineer

- At Thaicom, I specialize in geospatial data engineering and AI/LLM deployment, designing scalable, high-performance solutions on AWS for national-scale environmental and disaster prediction projects. I led initiatives including Carbon Watch, an AI-driven geospatial analysis platform, developing asynchronous, event-driven pipelines for large-scale carbon assessment, forest monitoring, and disaster modeling.
- To maximize performance, I containerized AI models with Docker and deployed on AWS SageMaker for training and async/serverless inference, enabling efficient large-scale geospatial applications. I automated infrastructure provisioning with AWS CloudFormation/CDK and integrated secure, enterprise AI access with Microsoft Entra ID.
- Key Achievements:
- ◦ Designed asynchronous geospatial AI workflows using AWS Lambda, SageMaker, and S3, orchestrating multi-hop processing pipelines.
- ◦ Built serverless ELT pipelines with AWS Glue, S3, and PostgreSQL (PostGIS) for automated geospatial data ingestion and transformation.
- ◦ Optimized LLM and ML model deployments for disaster prediction and environmental analytics using SageMaker & Bedrock.
- ◦ Developed Generative AI workflows integrating OpenAI, AWS Bedrock, Anthropic via LibreChat, OpenWebU I, MCP, and LangChain for Retrieval-Augmented Generation (RAG).
- ◦ Hold multiple AWS certifications, validating expertise in cloud-based AI/ML and geospatial solutions.

**2020-07 -> 2022-07**

### Mango Consultant Co.,Ltd

555 Rasa Tower 1, Unit 2304-1, 23rd Floor, Phaholyothin Rd, Chatuchak, Chatuchak, Bangkok 10900

### AI Developer

Contributed to the development of a CRM Chatbot platform for collecting and analyzing customer feedback from platforms like Facebook and LINE. Implemented KNN models for customer segmentation and Naive Bayes for spam detection.

- Collaborated on a Face Recognition System using CMake and DLIB for worker
- identification through image processing.
- Designed a microservice architecture for a LINE Developer system, enabling users to
- request quotations (PO) using the LINE Messaging API.
- Developed an RPA system for marketing, streamlining processes by retrieving and

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### GENERAL INFORMATION

**Interested position**

AI Engineer, Data Engineer

### Freelance Full Stack & AI/ML

- Developed EasyStay, a hotel booking platform with admin panel for property management, payment integration, and advanced reporting.
- Built Pasa Education, an e-learning platform offering workshops, meetups, and online courses, complete with course management and student enrollment.
- Developed an Asynchronous Face Recognition System with FastAPI and dlib, handling preprocessing, training, and prediction in a single Dockerized microservice. Utilized Redis for background training and Docker Swarm for scalable deployment, ensuring real-time face verification without blocking API requests.

## ACHIEVEMENTS HISTORY

### NOVEMBER 2024 TO DECEMBER 2024

- AWS Certified AI Practitioner
- AWS Certified AI Practitioner Early Adopter
- AWS Certified Cloud Practitioner

### AUGUST 2022 TO NOVEMBER 2023

- BSI Training Academy Issued by Udosak Suntithikavong
- AWS Security Engineering on AWS
- AWS Developing on AWS
- AWS Technical Essential Issued by Amazon Web Services
- AWS Cloud Practitioner Essentials Day by Amazon Web Services
- Voxy Proficiency Achievement Certificate – Intermediate Issued Voxy

### FEBRUARY 2020 TO FEBRUARY 2020

- National Research Office Inventor's Day 2020,
- Participated in presenting research results

### MARCH 2020 TO MARCH 2020

- Institute President of Southeast Asia University,
- SAU English Test Course.

### AUGUST 2019 TO MARCH 2020

- National Science and Technology Agency,
- Great Commission of the 19th Information Technology Contest of Thailand

### MARCH 2019 TO MARCH 2019

- Institute of National Electronics and Computer Technology Center (NECTEC)

## PORTFOLIOS / HONORS / REFERENCES

### IoT Automated Brine Monitoring and Control

- Competition project of the exhibition contest information
- technology of the 19 (The NSC) have a certificate through the
- finals.
- BITEC contest, National Research Office participated in
- research Innovative invention received a certificate
- Details can be found at https://iot.sau.ac.th/project 2020