

Supakrit Aphonmaeklong

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EDUCATION

Kasetsart University || Bangkok, Thailand 08/2022 – 05/2026
Bachelor of Engineering in Software and Knowledge GPA: 3.8
Relevant Coursework: Data Structures & Algorithms, OOP, Design Patterns, Software Architecture, Web Development, Cloud Computing, Machine Learning, Data Analysis, Agile, Project Management.

EXPERIENCE

Charoen Pokphand Group Co., Ltd: *Software Engineer Intern* 05/2023 – 07/2023

- Developed a POC demand forecasting machine learning model for SKU products, optimizing inventory planning and reducing stock shortages.
- Built a risk tracker dashboard utilizing various visualization techniques to enhance data insights, integrating React, TypeScript, and AWS services

Nara Institute of Science and Technology: *Undergraduate Researcher Intern* 05/2024 – 8/2024

- Researched public sentiment on mask-wearing using NLP, fine-tuning GEMMA 2 and EmoLLama-chat-7b for stance detection and emotion analysis.

Charoen Pokphand Group Co., Ltd: *Software Engineer Intern* 08/2024 – 12/2024

- Developed a Risk-Based Assessment & Management Dashboard using React, AWS Amplify, and AWS Cognito, enhancing data visualization and user interaction.
- Implemented zero-downtime backend deployment using AWS ECS, AWS CodeDeploy, and Terraform, ensuring seamless updates and system reliability.
- Worked with the Data Engineering team to develop a data pipeline for generating weekly sales forecasts, integrating MLflow for model tracking and performance monitoring.


Charoen Pokphand Group Co., Ltd: *Full-Stack Engineering (Part-Time)* 01/2025 – present

- Enhanced Risk-Based Assessment & Management Dashboard by implementing Cognito MFA features, including TOTP and SMS authentication for improved security.
- Automated end-to-end testing using Playwright, ensuring reliability and reducing manual testing efforts.

PROJECTS

SoTA - System of Tournamental Athleticism | [GitHub](#)

- Developed a sports tournament simulation system, modeling IOC tech with a data-centric API for sports, rules, and medal tracking.
- Tech Stack: Fast API, MongoDB, React, Docker

NetViser - Web app for classifying and visualizing network attacks with xAI | [GitHub](#) | [Web](#) 

- Developed a web tool for detects and visualizes 6+ network attacks (e.g., DDoS, FTP) using XGBoost with XAI transparency (SHAP/Gemini) to explain model decisions.
- Tech Stack: FastAPI, Next.js, ECharts, Google Cloud Storage, Docker, XGBoost, Redis, Google Cloud Run

CERTIFICATIONS

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- Deep Learning Specialization:** Coursera | DeepLearning.AI
 - Data Engineering Professional Certification:** Coursera | DeepLearning.AI | AWS

SKILLS

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- Python, JavaScript, TypeScript, Java, SQL, React, Next.js, FastAPI, Django, SQLAlchemy, PostgreSQL, Playwright, Scikit-Learn, XGBoost, Pandas, Matplotlib, Docker, Terraform, Iceberg, Airflow
 - AWS Services: IAM, S3, EC2, ECS, CodeDeploy, Cognito, Lambda, ECR, KMS, Route53, Glue.