

# Witchayut Tangwongkitsiri

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Portfolio: <https://knotnot.github.io/portfolio/>

## Summary

**Electrical Engineering (Communication & Control) graduate from Chulalongkorn University.**

Passionate about data engineering, with hands-on experience in Python, SQL, and building data pipelines through self-driven projects. Eager to apply technical skills in real-world data infrastructure roles.

## Professional experience

**Intern, Electrical Engineering Technology for Agricultural Resources (EETAR) lab, Chulalongkorn**

(June 2024 – August 2024)

- Developed IoT-based systems with Arduino IDE to automate agricultural tasks, collect data, and integrate with InfluxDB for real-time monitoring.

**Freelance Math Tutor**

(2021 - present)

- Taught at institutions such as Mainstairs and NCU Tutoring Center
- Tutored students in mathematics (elementary to high school) through group and one-on-one sessions.

**Project**

- Senior project
  - Development of network security testbed for abnormal traffic data detection in cyber-attack analysis using machine learning (Year 2): User service module  
( Project repo: [https://github.com/knotnot/senior-project\\_server-module](https://github.com/knotnot/senior-project_server-module) )
- Creating data pipeline
  - Developed an ETL pipeline in Python to extract data from the TripAdvisor API, transform and clean the data, and load it into a MySQL database running in a Docker container. Automated the workflow using Apache Airflow, also deployed in a separate Docker container.  
(Project repo: <https://github.com/knotnot/ETL-data-pipeline> )
- Deployment machine learning (Data Sci Prac 2603498)
  - Developed a machine learning model using fertilizer application and weather data. Deployed the model with Flask to create a simple web interface for practical and easy use.  
(Project repo: [https://github.com/knotnot/2603498-Project\\_DS](https://github.com/knotnot/2603498-Project_DS) )

## Additional skills & Activities

- **Language:** Thai (Native), English (Fluent), TOEIC score: 805/990
- **Technical Skills:** Python, SQL, HTML, CSS, Docker container, Power BI, Ubuntu (Linux), Git, MySQL, Excel, Matlab, Apache Airflow
- **Activities:**
  - MC for Faculty Orientation Day
  - CUEE-SDG: Community Service: Electrical Repair at Rural School
- **Interests:** Movies, Board games, Cloud technologies, Investment, Tennis, AI