WARITNUN SAKULKLANG

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EDUCATION

Chulalongkorn University *Bangkok, Thailand*
Computer Science, Faculty of Science *Aug 2024 – Present*
GPAX: 2.92/4.00 (2 Semesters)

SKILLS

- **Skills:** Leadership, Data Analytics, Project Management, Full-Stack Development, Adaptability, Communication
- **Languages:** Python, Java, C, JavaScript, SQL, HTML/CSS, R
- **Tools:** Excel, Power BI, Pandas, NumPy, React, Docker, Node.js, Django, PostgreSQL, MongoDB, MinIO S3
- **Interests:** Natural Language Processing, Financial Technology, Cloud technology, Football

EXPERIENCES

Optimized back-end for the Variant Analysis module *Intern*
NBT (National Biobank of Thailand) - NSTDA *May 2025 – Jul 2025*

- Developed a backend system to receive user input and send the data to the server for storage in a MongoDB database. Utilized Django integrated with MongoDB to handle data transmission and ensure smooth communication between the frontend and the server.

AI system for detecting vehicles and crosswalks using CIRA CORE *Computer Vision Team*
Global Technology Club – KMITL *Apr 2023 – Jun 2023*

- Built an AI-powered computer vision system that detects vehicles and crosswalks from video feeds using the CIRA CORE platform. The system processes real-time traffic scenes to identify users and crossing areas, demonstrating the potential for improving pedestrian safety and intelligent transportation applications.

ACHIEVEMENTS

DPST Scholarship – Computer Science | *Scholarship Recipient* *Jun 2024 – Present*

- A highly selective national scholarship awarded by the Institute for the Promotion of Teaching Science and Technology (IPST) to students with outstanding academic performance and research potential in STEM fields.

2nd Runner-up – Brain Hackathon Competition : Business Track | *AI Engineer* *Jan 2024*

- Developed an AI pipeline that captures spoken responses, converts them into text via OpenAI speech-to-text models, and analyzes elaboration quality using TF-IDF features.
- Leveraged IELTS Writing datasets to build a reference-based scoring mechanism for elaboration skills.
- Designed preprocessing, vectorization, and evaluation modules to support automated text-quality assessment.

2nd Runner-up – National Academic Fair for 46 ICT Schools | *Software Engineer* *Sep 2023*

- Designed and assembled a high-speed autonomous racing robot for competition.
- Programmed the robot's control system using Arduino with C, including sensor handling and speed optimization.
- Integrated hardware, electronics, and software to achieve consistent high-speed performance.

3rd Runner-up – World Robot Games Thailand Championship | *Software Engineer* *Aug 2022*

- Developed software for a rescue robot competing in WRG Thailand Championship.
- Implemented PID control to manage speed, turning accuracy, and course stability.
- Integrated sensor data (e.g., IR/ultrasonic/line sensors) and motor control using C/Arduino**.**

EXTRACURRICULAR ACTIVITIES

- **President** of Robotics Club at Princess Chulabhorn Science High School Chonburi
- **Youth Executive Committee Member** of Chonburi Provincial Administrative Organization.
- **Participant** of the ASEAN Data Science Explorers 2023
- **School Representative Presenter** of the EEC Innovation for the Future 2023