Papop Lekhapanyaporn

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EXPERIENCE

Redcare Pharmacy | Working student — Aug 2023 - Present

- Developed an automation tool using **Python** to monitor and report frequent updates from Gematik regarding e-prescriptions, and to send notifications for key events, keeping the team informed and reducing manual effort.

- Set up a local testing environment using **Wiremock**, **Java**, and **Python** to validate E-prescriptions, and designed a tool to convert example templates into mock files for automated testing, reducing manual effort, enabling early compliance checks, and improving the overall testing workflow.

- Built an internal AI assistant using **ChatGPT API** to parse and answer questions based on specifications from gematik, creating a searchable knowledge base to support team workflows.

EDUCATION

RWTH Aachen University | B.Sc Computer Science — Oct 2022 - Sep 2025

- **Thesis**: Benchmarked automated memory management techniques on **NVIDIA GH200**, revealing performance trade-offs under diverse memory patterns.

PROJECTS

Blade Defect Detection (Philips) | Python OpenCV NumPy scikit-learn — May 2023 -

- Collaborated in a team of five to develop a defect detection system for shaving blades using **Python**, **OpenCV**, and **NumPy**, achieving **96% accuracy**. **2nd Place** at the **Fraunhofer Hackathon 2023**.

- Integrated and refactored team code into a unified pipeline, performed image preprocessing and result analysis using **scikit-learn** for confusion matrix and performance metrics.

Asclepius, ASL translator | Python OpenCV Tensorflow — Mar 2022 - Jun 2022

- Led a team of five in developing a machine learning–based translator for American Sign Language (ASL) to text, using real-time video processing and gesture recognition. **1st Place** winner at the **Microsoft APAC AI for Accessibility Hackathon 2022**.

- Oversaw project planning, team coordination, and the design and training of the core deep learning model using **TensorFlow** and **OpenCV**.

Food Busters — Food Recognition App | Python TensorFlow OpenCV — Sep 2023 - Dec 2023

- Developed an image classification model using **TensorFlow** to identify food items from user-uploaded images, supporting features for healthy diet suggestions and reducing food waste.

- Collaborated with a cross-functional team to integrate the AI model into a full-stack web application aimed at promoting sustainability and healthier eating habits.

EXTRACURRICULAR ACTIVITIES

Interact Club | **President, District Vice President** — May 2020 - Mar 2022

- Led a student-run volunteer club supported by **Rotary International**; organized annual events and initiated collaborative community service projects with partner clubs.

TECHNICAL SKILLS

Language: Python, C/C++, SQL

Framework: CMake, Pytorch, Tensorflow, Scikit-learn, Jupyter, Conda, Pandas, NumPy, Matplotlib, Plotly

Tools: Git, Github/Gitlab

LANGUAGE

Thai: Native   **English**: C2   **German**: C1