

Chaipat Jainan

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PROFESSIONAL SUMMARY

Final-year CS student with research experience in computational data analysis and AI systems. Proficient in Python, MATLAB, and high-performance computing environments. Experienced in processing large-scale datasets, implementing automated analysis pipelines, and conducting research at JAIST.

EDUCATION

B.Sc. Computer Science

Jun 2026

Chiang Mai University — Chiang Mai, Thailand

- GPA: 3.1 / 4.0 | Final Year Research: JAIST×CMU Joint Collaboration

EXPERIENCE

Research Intern — KnOwLab

Apr–Sep 2025

Japan Advanced Institute of Science and Technology (JAIST) — Japan

JAIST×CMU Joint Research

- Conducted computational research on Knowledge Graph construction from unstructured data using Python-based analysis pipelines and machine learning techniques.
- Processed large-scale datasets on KAGAYAKI High-Performance Computing cluster using PBS job scheduling, implementing automated batch workflows for reproducible research.
- Developed data validation and quality assurance algorithms to ensure research data integrity and constraint compliance across multi-stage processing pipelines.

Software Developer (Contract)

Apr 2024–Mar 2025

Chiang Mai University — Thailand

- Developed automated grading system integrating GPT-3.5 API for 80+ students, implementing data processing pipelines that reduced processing time by 80%.
- Built database systems and data migration scripts using Python and SQL; designed system architecture and wrote technical documentation.
- Implemented containerization and automated deployment workflows using Docker and CI/CD pipelines.

Teaching Assistant

Aug 2022–Mar 2025

Chiang Mai University, Dept. of Computer Science — Thailand

- Developed and maintained academic knowledge base (github.com/AppleBoiy/kiwis) with Makefile-driven build automation, serving 100+ users; authored bilingual technical documentation adopted across 5 courses.

PROJECTS

Ontology-Augmented Thai Public Health Service Recommendation System

Jan–Mar 2026

OWL · SPARQL · SWRL · Protégé · Python · github.com/AppleBoiy/onto-augmented-PHSRS

- Designed domain-specific knowledge base with 85 classes, 411 individuals, and 22 data properties modeling Thai public health services within a formal ontology framework.
- Developed 38 SWRL reasoning rules and 40 SPARQL queries across four competency domains; validated system performance against all competency questions with automated query escalation.

SKILLS

Programming Languages: Python, C/C++, MATLAB, Bash, SQL

Scientific Computing & HPC: NumPy, Pandas, SciPy, KAGAYAKI HPC Cluster, PBS Job Scheduling

Tools & Frameworks: Git, Docker, Linux, Makefile, Neo4j, Protégé

Research & AI: Knowledge Graphs, Ontology Engineering (OWL, SPARQL), LLM APIs, RAG Systems