Chaipat Jainan

Chiang Mai, Thailand • contact@chaipat.cc

ask.chaipat.cc • github.com/AppleBoiy • linkedin.com/in/chaipat-jainan

Open to software roles in Chiang Mai; available to start immediately

EDUCATION

Chiang Mai University — Chiang Mai, Thailand
Bachelor of Science in Computer Science — Expected 2027

EXPERIENCE

National Astronomical Research Institute of Thailand (NARIT) — Chiang Mai, Thailand
Research Assistant, Galactic Archaeology & Machine Learning — Apr 2026 – Oct 2026

- Developed an HDBSCAN clustering pipeline in Python to reconstruct galactic merger histories from large stellar datasets.
- Applied AutoGluon models to detect faint stellar structures, running training and analysis workloads on HPC infrastructure.
- Writing up the results as a paper (in preparation).

Japan Advanced Institute of Science and Technology (JAIST) — Ishikawa, Japan
Joint Researcher in Ontology Engineering — Jun 2025 – Sep 2025

- Designed OWL ontologies and semantic extraction pipelines to structure safety-testing knowledge for automated driving systems.
- Validated models with SPARQL queries and orchestrated batch jobs with PBS on the KAGAYAKI HPC cluster.
- Collaborated with an international research team, communicating results in English.

Department of Computer Science, Chiang Mai University — Chiang Mai, Thailand
DevOps Contractor — Jun 2024 – Dec 2024

- Built automated grading systems and supporting microservices used by students and instructors in live courses.
- Containerised services with Docker and implemented CI/CD pipelines to standardise testing and deployment.

Department of Computer Science, Chiang Mai University — Chiang Mai, Thailand
Teaching Assistant — Aug 2022 – Mar 2025

- Taught and supported classes of 50+ students in Python programming and Assembly language.
- Prepared exercises and course materials; explained technical concepts and debugged student code one-on-one.

PROJECTS

ask.chaipat.cc, the ask-me-anything site · JavaScript, HTML/CSS, SPARQL — ask.chaipat.cc

- This site: a portfolio for finding entities and their live sites, about pages and source code, as well as asking questions about his work.

Knowledge-graph explorer · Knowledge graphs, TypeScript, Next.js — graph.chaipat.cc

- Graph Laboratory: a research workspace for exploring large system-of-systems datasets as force-directed graphs, built with Next.js, Postgres and Redis.

Knowledge graph construction from unstructured data · Knowledge graphs, Python, spaCy — github.com/AppleBoiy/text2kgraph

- Pipeline that builds knowledge graphs from unstructured text: entity and relation extraction with spaCy, graph construction with NetworkX, export to edge lists…

Ontology-augmented health recommendation · OWL, Knowledge graphs, SPARQL — github.com/AppleBoiy/onto-augmented-PHSRS

- Ontology-augmented personal healthcare service recommendation for Thailand: an OWL 2 DL ontology of diseases, symptoms, services, facilities, locations and…

SKILLS & INTERESTS

Technical: Python, C, Swift, SQL, Assembly, PostgreSQL, Redis, Docker, CI/CD, Git, Linux, HPC / PBS, OWL, SPARQL, Knowledge graphs

Language: Thai (native), English (fluent)

Interests: Ontology and data modelling, Astronomy, Game localisation