Sopida Kiti

PERSONAL DATA

Name	Sopida Kiti
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EDUCATION

Graduated 2024	Chiang Mai University
	Bachelor of Engineering
	Major in Computer Engineering
March 2018	Suanboonyopatham Lamphun School
	Mathematics-Science Program

EPERIENCES

Teaching assistant   July 2023 - October 2023
CPE207: Basic lab CPE
This course covered web development using TypeScript, the React framework, Node.js, Next.js, APIs with Insomnia, and databases with MongoDB. I assisted the professor during lectures and lab sessions, helping students resolve issues with their lab work and grading their lab assignments.
Instuctor: Asst. Prof. Dome Potikanond. Email dome.potikanond@cmu.ac.th

Teaching assistant and Discussion section leader   July 2024 - October 2024
CPE216: Discrete Mathematics for Computer Engineers
Responsibilities as the activity leader in a discussion class include assisting with homework problems and grading assignments.
Instuctor: Prof. Chinawat Isradisaikul. Email chinawat.i@cmu.ac.th

Internship   April 2024 - May 2024
Big Data Agency Co., Ltd
As a Data Engineer, I have worked on extracting data from documents using OCR technology and developed data dictionaries for database schema.

Teaching assistant and Discussion section leader   July 2023 - October 2023
CPE216: Discrete Mathematics for Computer Engineers
Responsibilities as the activity leader in a discussion class include assisting with homework problems and grading assignments.
Instuctor: Prof. Chinawat Isradisaikul. Email chinawat.i@cmu.ac.th

PROJECTS

Student   August 2024 - October 2024

CPE261479-2: Formal Reasoning about Programs

Mini project is *Using LEAN4 to prove equivalence of DFA, NFA, and Regular Expression.* The mini project will have a contract with inductive types and the ability to define and manipulate formal models of computation. DFA, NFA, and Regular Expression will be defined as formal objects in Lean. The primary goal is to verify that for every regular expression, there exists a corresponding DFA and NFA that accepts the same language, and vice versa.

Lecturer: Prof. Chinawat Isradisaikul. Email chinawat.i@cmu.ac.th

More Information: Mini Project Using LEAN4

Front-end developer   July 2023 - March 2024

CPE492: Project

Senior Project is about developing a web application, that facilitates transit system design and transforms the design into GTFS (General Transit Feeds Specification) data. The web application is called *Des2G*. The purpose of the tool is to create an online platform that facilitates transit system design and to develop an online tool capable of converting the design into GTFS data. Furthermore, the development of this tool aims to enhance the efficiency of transit system design processes, including the conversion into GTFS data, thereby increasing its usability. Nowadays, this application represents an innovative approach that has not been previously developed.

Advisor: Assoc. Prof. Santi Phithakkitnukoon. Email: santi@eng.cmu.ac.th

Front-end development   November 2023 - March 2024

CPE361: Software Engineering

The course's project has a team to develop software, the software is a web application for review courses in the Department of Computer Engineering such as general electives, major electives, and free electives. That software is for CPE students who want to write review courses for other students who want to read review for planning time schedules for each semester and for CPE lecturers who want to read course reviews on another platform. My roles in the team is front-end developer, designer, and Product owner.

Design Database   October 2023

CPE342: Fundamental Database systems

The course's project about design database for restaurant systems develops conceptual design using Entity Relationship (ER) Class design, maps to relational schema and processes to be declared transactions.

Back-end Developer   November 2022 - March 2023

CPE200: Object Oriented Programming

The course's project is about Java game development kind of turn-based game, called UPBEAT. In design with the MVC model, my responsibility is the Controller aspect, In a part of grammar and parser.

Hardware Developer   November 2022 - March 2023

CPE215: Embedded System Laboratory

The project involves a device for experimenting with Newton's laws, represented by a parachute.

Responsible for the hardware aspect, creating a 3D printed model with Autodesk Fusion 360.

COMPUTING EXPERIENCE

Programming Languages	Java, PHP, Typescript, Javascript, Python
Web Development	HTML, CSS, React, Laravel, Vite
Databases	SQLite, Oracle
Markup Language	LaTeX

LANGUAGES

Thai	Native
English	Intermediate