

Nathee Jaywaree

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I am a computer engineering student interested in networking and cyber security

I am experienced in software developing and database researching

Education

Computer Engineering at King Mongkut's University of Technology Thonburi (KMUTT) | 2020 – 2024

Technical Skills

Languages: C, JavaScript, TypeScript, Python, Java, R, PHP, MATLAB, SQL, HTML, CSS, LaTeX

Frameworks: React, NextJS, Tailwind CSS, Express.js

Tools: Slack, MySQL, MariaDB, Oracle, MongoDB, SQLite, PostgreSQL, Docker, Postman, Git, GitHub, GitHub Actions, nginx, Ubuntu, Kali, Raspbian, Burp Suite, Wireshark, Open MPI, Open MP, numpy

Experiences: API developing, Web developing, Team programming, Database management, Software testing, Chrome extension developing, Linux, Networking, Security, Database testing, Software debugging, Conducting research, Data security, Basic machine learning for data analytics and image processing

Soft Skills

Able to work well in a team and communicate clearly using Thai and English. Able to solve complex problems

Personal Projects

YouTube Ad Skip Key

<https://chrome.google.com/webstore/detail/youtube-ad-skip-key/hgijpdhbgbfknajdponodgdehhafcbbp>

A Google Chrome extension that provides users with a shortcut key to skip YouTube ads manually.

Professional Experiences

Full stack developer for Inu | 2024

<https://github.com/team-inu>

Developed with a team a website with Typescript and Go for university faculties to manage their courses, lecturers, and documents. For back-end, I designed the database, developed repositories, controller, and services. For front-end, I developed table components, handling file imports and data fetching. I also developed APIs to communicate between 2 ends.

Database researcher internship at TEST lab, NUS, Singapore | 2023

<https://github.com/nus-test>

Researched on differential testing for MySQL, PostgreSQL, and SQLite. I got to study database documentations, conduct a research, write python program to automate testing, write java programs, use a debugger, use Docker compose, use GitHub Actions, use regular expressions, learn git rebase. I also got to communicate purely in English, while solving complex problems.

Developer for an End-to-End encryption application | 2023

<https://github.com/peer-kan/End-to-End-Encryption>

Developed a simple application with python as a class project to communicate securely with End-to-End encryption. My responsibility was to develop a server with python that can handle concurrent clients with concept of mutual exclusion and semaphore to talk to each other. I also had to implement Diffie-Hellman, Symmetric/Asymmetric encryption.

Developer for a MQTT application | 2023

<https://github.com/riflowth/mqtt-playground>

Developed a simple application as a class project with Go to implement MQTT protocol. My responsibility was to implement the part that sends out information including separating data into smaller bytes before sending.

Game developer for Finger Monster | 2022

<https://github.com/eltfshr/finger-monster>

Developed with a team a web-based game with Typescript to teach sign language. My responsibility was to use creativity and problem-solving skills to implement physics and collision processing. I also created event manager for the game.

Full-stack developer for Mod-Tham-Ngarn | 2022

<https://github.com/riflowth/mod-tham-ngarn>

Developed with a team a website with Typescript to manage machine maintenance/ error logging/ service operation. For back-end, I developed data models, repositories, services, controllers. For front-end, I developed common react components and data fetching. I also developed APIs to communicate between two ends.

Relevant Courses

MACHINE LEARNING FOR DATA SCIENCE AND ARTIFICIAL INTELLIGENCE | 2024

Learned to apply basic machine learning in statistics, data analytics and image processing with python.

INTERACTIVE COMPUTING AND ITS APPLICATIONS IN ART AND SCIENCES | 2024

Learned to use creativity to create physical exhibitions. Got to visit museums and galleries for inspiration.

NDG Linux Unhatched – CISCO Networking Academy | 2023

Learned about basics of Linux

Data Security for Multimedia Communications | 2023

Learned about cryptography, speech security systems, image/video compression, and digital watermarking.

FUNDAMENTALS OF CYBERSECURITY | 2023

Learned basics of cybersecurity in encryptions, network security, database security, website security, and secure programming.

COMPUTER NETWORKS | 2023

Learned about basics of networking in OSI layers, HTTP, DNS, UDP/TCP, IP, DHCP, NAT, ICMP, LAN, and physical transmission media

HIGH PERFORMANCE COMPUTING AND CLOUD TECHNOLOGIES | 2023

Learned to program concurrently between threads and processes with openMP and openMPI. Learned containers, IaaS, PaaS, SaaS