

Chayapol Bunnag

Computer Science

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Education

July 2020 – | **Mahidol University International College | Salaya, Thailand**
August 2024 | *Bachelor's Degree in Computer Science | Expected to finish on August 2024*





Work Experiences

- April 2024 - | **System Engineer (Intern) - Blendata Co., Ltd | Bangkok, Thailand**
Ongoing | *Primarily getting to know the flow of being a system engineer, mainly worked on getting Blendata Enterprise up on Helm Chart and CI/CD work on Jenkins*
Skills | *Jenkins, Kubernetes, Linux*
- Sep 2023 - | **App Developer - Astro Innovation | Bangkok, Thailand**
April 2024 | *Primarily responsible for designing and implementing the message functionality of the app, which involved streaming data from/to Firebase.*
Skills | *Flutter, Dart, Firebase*
- Aug 2022 - | **Automated Tester - The Gang Technology Co., Ltd. | Bangkok, Thailand**
Jun 2023 | *Worked on End-to-End tests on multiple projects using the testing framework Playwright along with the type annotated Javascript, Typescript.*
Skills | *Playwright, Typescript*
- Sep 2021 - | **Teaching Assistant - Mahidol University International College | Salaya, Thailand**
April 2024 | *Course TA: Intro to Computer Programming, Data Structure, System Skills and Low-Level programming, Intro to Computer System and Architectures, Functional and Parallel Programming*
Skills | *Python, Bash, C, Linux, Java, C, C++, Scala, Rust, Mentoring, Technical Communication, Teaching*

Projects

- March 2024 | **Zombie Quest Game | Unity, C#**
🔗 <https://play.unity.com/mg/other/webgl-builds-393039>
A 2D take of "Escape from Tarkov", enter the 'Raid' to fight zombies, loot and sell goods for money. Advance to higher levels to find the ultimate cure for the zombies. Features includes: Inventory System, Tutorial System, Hp System, Loot Drop System, Map Generation System, Shop System, Multi-weapon System & Load/Saving System
- November 2023 | **MIPS Visualiser | C++, MIPS Architecture, ImGui, Emscripten**
🌐 <https://github.com/d-a-y-dev/mips-visualiser> 🌐 Demo
A tool designed to visualise the 5-stage pipeline of the MIPS processor using ImGui to help visualise the pipeline as well as Emscripten to build everything as a static web page so GitHub pages could host it correctly. It has features like turning on and off data forwarding, letting users observe the data flow for each instruction, visualise instructions within the memory, and also the ability for users to move forward or backward in the cycles
- October 2023 | **Toktik Website | Vue, Python, Docker, Kubernetes, RabbitMq, S3, WebSocket**
🌐 <https://github.com/polpon>
An alternative take on the social media application "TikTok" using Vuejs for frontend (Javascript) and FastAPI for backend (Python). To make our application scalable, we'll employ the microservices architecture when we are designing our application to increase scalability, decrease deployment time, improve fault isolation, and better load balancing of tasks within the application. Docker is used to test and build up images of services when we deploy the application to our cluster. We used Amazon S3 for storage and RabbitMq as a message broker between each service used to process the videos. We used Kubernetes to automate the deployment, scale, and manage the containerized applications within our cluster.

Projects Cont.

April 2023	Xpress Ready <i>Flutter, Firebase</i>  https://github.com/danamestrial/xpressready <i>A mobile app designed to provide a solution for drivers who may face unexpected accidents on the road. We understand that most people panic in such situations and are often unsure of how to respond.</i>
July 2022	Circle OpenChat <i>Rust</i>  https://github.com/danamestrial/rust-chatserver <i>An alternative take on the social media application "Line OpenChat" but instead it is implemented using Rust for the parallelism in the backend.</i>
April 2022	Spot the difference <i>Python</i>  https://github.com/danamestrial/spot-the-difference <i>A Python project to find the difference between the two images using different methods, and is also built in with tools such as image slicer and image aligner as well as a UI for ease of use.</i>
August 2021	IC Courses Website <i>Vue, Flask</i>  https://github.com/GigaCatZ <i>A mobile app designed to provide a solution for drivers who may face unexpected accidents on the road. We understand that most people panic in such situations and are often unsure of how to respond.</i>

Awards and Extra Activities

Oct 14th - 16th 2022	2nd International Research Workshop in CS and IS hosted by NUS and PSU <i>Won the best Statement of Purpose award How light could improve a CPU's performance at a joint NUS-PSU research workshop aiming to discuss and explore new research regarding Computer Science and Information Systems.</i>
2021 - 2024	Computer Science Representative at MUIC Open House <i>Engaging and providing answers for curious students visiting the Open House who are interested in Pursuing a major in Computer Science. Our goal is to help the students determine if Computer Science is the right path for their future.</i>

Skills

Language	English & Thai
Technical Skills	Programming Languages <ul style="list-style-type: none">• C, C++, C, Java, Python, Rust, Scala, Dart, Javascript, Typescript, SQL, NoSQL Frameworks <ul style="list-style-type: none">• Vue.js, Flask, SpringBoot, Flutter, SocketIO, Playwright, Unity Tools <ul style="list-style-type: none">• Docker, Kubernetes, Helm, Jenkins, Redis, RabbitMq, RedPanda, MySQL/MariaDB, Firebase