# Natthaphong Thepphithak (Au)

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## EDUCATION

- **Chiang Mai University** *Chiang Mai, Thailand*
  *B.Eng., Computer Engineering* *2021 – 2025*
  **GPAX:** 3.87  *(First-Class Honors)*

## CERTIFICATIONS

- **TOEIC Listening and Reading** *Score: 680 (B1)*

- **Huawei Cloud HCCDA – Cloud Native**

- **Huawei Cloud HCCDA – Tech Essentials Certificate**

## TECHNICAL SKILLS

- **Core DevOps & Cloud:** Docker, Kubernetes, Jenkins, ArgoCD, Terraform, Azure, AWS, GCP

- **Programming:** Python, Groovy, TypeScript, Golang, Java

- **AI & Automation:** AI-assisted DevOps workflows, N8n

- **Project & Collaboration Tools** Jira, Confluence, Microsoft Teams

- **Version Control:** Git, GitHub, GitLab

- **Databases:** MySQL, PostgreSQL, MongoDB

- **Web Development (experience):** ReactJs, NextJS, Vue.js, Flutter, NestJs, Elysia, Express, Fiber

## WORK EXPERIENCE

- **SCB TechX CO., LTD.** **Bangkok, Thailand**
  DevOps Engineer Jun 2025 - Present

  - Act as one of four DevOps engineers responsible for CI/CD for the SCB EASY mobile banking application, serving 13M+ active users.
  - Design, maintain, and optimize end-to-end CI/CD pipelines (service initialization, build, test, security scanning, and deployment) supporting multiple development teams across multiple environments, integrating DevSecOps practices and resolving bottlenecks in legacy pipelines to significantly reduce execution time.
  - Implemented an AI-agent–driven pipeline to analyze CVEs in base images and recommend remediation, reducing manual effort in vulnerability management.
  - Manage Azure infrastructure for SCB EASY by deploying microservices to AKS and provisioning supporting services (e.g., Azure Database for MySQL – Flexible Server, Storage Accounts) via Terraform-based infrastructure pipelines.
  - Review and refine deployment playbooks to standardize release procedures and reduce deployment errors across environments.
  - Contribute to the migration of source repositories from GitLab to GitHub, enhancing CI/CD pipelines to support multiple Git providers without disrupting developer workflows.
  - Provide hands-on support to development teams, troubleshooting CI/CD and cloud environment issues to keep delivery pipelines stable and releases on schedule.

- **Freelance** **Remote / Part-time**
  DevOps Consultant & Instructor 2025 - Present

  - Provide DevOps consulting for small to mid-sized teams, focusing on CI/CD pipeline design and implementation using tools such as Jenkins, GitHub/GitLab, Docker, and Kubernetes.
  - Design and implement containerized deployment workflows and infrastructure on cloud platforms, emphasizing scalability, reliability, and automation.
  - Deliver training and hands-on workshops on Docker, Kubernetes, and DevOps practices, helping developers and students adopt modern CI/CD and containerization workflows.

- **Chiang Mai University's Faculty of Engineering** **Chiang Mai, Thailand**
  DevOps & Fullstack Developer Aug 2023 - Mar 2025 (1 year 8 months)

  - Assisted stakeholders in refining and advancing essential features while simultaneously optimizing their product for improved performance.
  - Worked across multiple roles (Fullstack Developer, DevOps Engineer, and Project Manager) to deliver high-impact solutions.
  - Developed a fully functional scholarship management system for CMU Faculty of Engineering.
  - Implemented DevOps best practices, reducing deployment time by 80% and enhancing system reliability.
  - Demonstrated strong leadership by setting clear project goals, managing team dynamics, and ensuring effective collaboration to drive successful project outcomes.
  - Total users for each year around 500+ students and 50+ staff members

- **SCB TechX CO., LTD.**                                    **Bangkok, Thailand**
  DevOps Engineer (Cooperative Education)                   Jun 2024 - Oct 2024 (5 months)

  - Troubleshot, developed, and optimized Terraform modules for Azure Cloud within the SCB core banking project, ensuring compliance with best practices.
  - Proficient in provisioning and destroying resources using Terraform, ensuring optimal infrastructure utilization.
  - Designed and implemented an automated configuration validation pipeline in Jenkins using Groovy and Python, reducing misconfigurations and ensuring consistent, error-free deployments.
  - During my internship, I proactively addressed unique cloud service challenges within the SCB core banking project by crafting innovative solutions that weren't available in community forums or official documentation. Through self-driven experimentation, I identified and implemented effective methods, which I then shared with my senior mentor and cross-functional teams, contributing to the resolution of complex problems.

- **CMU PODD Centre**                                        **Chiang Mai, Thailand**
  Contract Job for FullStack Developer                      Aug 2023 - Feb 2024 (7 months)

  - Designed and implemented an elderly registration and home visit coordination system by launching on Line OA and Line LIFF engine.
  - Developed a user-friendly technology platform for nationwide volunteers.
  - Developed a digital platform that streamlined volunteer operations, enhancing coordination efficiency.
  - Created a system with significant personal and social impact.

## PROJECTS

- **Screetner (Street Scanner) | Senior Project**

  - Designed and developed an end-to-end system for scanning local government assets as a senior project.
  - Developed a mobile application to capture asset data via video while driving, with seamless background uploading for cloud-based processing.
  - Developed a video processing pipeline to extract taxable signboards from video footage and visualize them on a web platform, enabling users to efficiently plan and manage tax assessments.
  - Deployed an auto-scaling processing unit on Azure to optimize costs by dynamically adjusting resources.
  - Visualized processed data on a web application to enhance asset management and maintenance efficiency.

  **Tech Stack:** Python, OpenCV, YOLOv8, Azure Services, Docker, Golang, Typescript, Elysia, Next.js, Flutter, PostgreSQL, MongoDB, Redis

- **OCR Tools with Functional Programming Concept**

  - Develop a highly modular OCR web application using functional programming paradigms to extract and process text from images efficiently.
  - Leverage Monads, function composition, and higher-order functions to create predictable and reusable transformations in text processing.
  - Implement pure functions and immutable data structures to enhance maintainability, testability, and scalability of the application.
  - Design a seamless, declarative UI that enables users to visualize, manipulate, and interact with extracted text intuitively.
  - Optimize API requests and image processing pipelines by applying lazy evaluation, memoization, and functional design patterns to minimize redundancy.
  - Enhance user experience with functional-driven text operations, including copying, editing, formatting, and downloading, ensuring efficient state management.

  **Tech Stack:** Vite React, Python

- **BOTMAPS**

  - Developed a full-stack web application for visualizing the Computer Engineering Department's floor plan at Chiang Mai University.
  - Integrated third-party APIs, such as TeamUp, to retrieve and display real-time room schedules, making it easier for professors and students to access information.
  - Enhanced user experience by incorporating features for viewing room availability and course details, improving accessibility and usability.

  **Tech Stack:** Vite React, Golang, MySql