



# Kittipat Poonyakariyakorn

## Software Engineer

Experienced software engineer specializing in backend development, DevOps, and cloud infrastructure. Skilled in building scalable, high-performance systems and streamlining deployments with tools like Kubernetes, CI/CD pipelines, and cloud orchestration. Strong communicator and team player, known for leading projects, mentoring teammates, and driving continuous improvement. Thrives in fast-paced environments and cross-functional teams. Bilingual in Thai and English, dedicated to delivering reliable, innovative solutions.



K.poonyakariyakorn@gmail.com



+66 83-715-6261



<https://github.com/kittipat1413>



190/1 Ramkhamhaeng Road, Min Buri,  
Bangkok 10510



Kittipat Poonyakariyakorn



<https://dev.to/kittipat1413>

## Employment History

### Software Engineer at Kiatnakin Phatra Securities Public Company Limited

September 2024– Present

- **Developing internal APIs in the customer domain**, such as customer onboarding and profile review, incorporating validation layers, retry mechanisms, and structured error handling aligned with regulatory requirements.
- **Built and standardized an internal error code framework**, defining a structured format to categorize error types, subcategories, and specific scenarios, improving traceability and simplifying error debugging across services.
- **Contributed to the development of a centralized Go library** used across microservices, including components such as structured logger, input validator, retry handler, etc. ensuring consistency and reusability across all backend services.
- **Providing technical mentorship**, improving test coverage, and enhancing developer productivity through internal tools, reusable code patterns, and best practice documentation.

### Software Engineer at Senestia Company Limited

April 2023– August 2024

- **Increased overall service uptime** by implementing a comprehensive uptime monitoring system, transitioning from a reactive approach—where clients had to notify us of service outages—to a proactive model that detects and resolves issues before client impact.
- **Reduced deployment errors and cut deployment times** by migrating company applications to a centralized management cluster on Google Kubernetes Engine (GKE), leveraging Rancher and ArgoCD for efficient and streamlined deployments.
- **Decreased manual provisioning time and reduced repetitive POC efforts** by developing and implementing an Infrastructure as Code (IaC) framework. This improvement is reflected in the reduced story points required for infrastructure-related tasks, streamlining the provisioning process and increasing overall efficiency.
- **Enhanced system observability and reduced issue resolution time** by implementing a structured logging system and integrating Datadog with applications. Set up agents, configured OpenTelemetry collectors, and instrumented backend services to enable end-to-end tracing and improved debugging capabilities.
- **Played a key role in the initiation and architecture design of the HIS-service project** (health information system), focusing on interoperability and compliance with FHIR standards.
- **Led the design and development of the backend for the Patient Satisfaction Survey Project**, creating a service to broadcast surveys via Line, enhance feedback collection, and integrate the data into a visualization dashboard.
- **Improved code quality and team productivity** by conducting code reviews and providing mentorship, along with knowledge sharing across all team members, ensuring continuous learning and best practices are adopted throughout the team.
- **Conducted system design and technical interviews for engineering and DevOps candidates**, evaluating architecture skills and hands-on capabilities to strengthen the team's technical foundation.

## *Software Engineer at Prodigy9 Company Limited*

*July 2021 – April 2023*

- **Collaborated on gathering client requirements** and played a key role in designing and implementing customized deployment solutions using Kubernetes and Docker, ensuring tailored, efficient, and reliable project outcomes.
- **Architected and built a crypto bot trading platform from the ground up**, enabling both manual trading with semi-automated features and fully automated bots that clients can subscribe to, ensuring a scalable and efficient trading experience.
- **Contributed to backend development for a merchant service within an e-wallet application**, focusing on merchant onboarding, QR payment generation, transaction recording, and managing voids and refunds within the merchant back office.
- **Architected and maintained microservices architecture**, ensuring seamless integration and communication between services, with a focus on scalability and resilience.
- **Designed and implemented customized deployment solutions for clients**, utilizing technologies such as Kubernetes and Docker to orchestrate containerized applications based on specific project requirements.
- **Architected and deployed CI/CD pipelines** using GitHub Actions, GitLab CI, and ArgoCD to automate and streamline code deployments, enhancing delivery speed and reliability.
- **Designed, developed, and deployed applications** on cloud platforms including AWS, GCP, Linode, and DigitalOcean, tailored to diverse client needs.
- **Monitored and optimized backend performance** across various cloud platforms, ensuring the reliability and scalability of critical services.
- **Wrote configuration manifests and modules** using Helm, Kustomize, and Terraform to deploy, configure, and manage cloud infrastructure.

## *Cloud Engineer at Advanced Info Service Public Company Limited*

*July 2020 – July 2021*

- Managing and monitoring AIS IoT systems and infrastructure.
- Monitor and test application performance for potential bottlenecks, identify possible solutions, and implement those fixes.
- Perform design, implementation, and upgrades of systems to meet the business and user needs.
- Install, configure, and maintain operating systems, application software and system management tools.
- Write and maintain custom scripts to increase system efficiency and lower the human intervention time on any tasks.
- Developed and implemented tools which increased the level of automation and efficiency of installing and configuring servers.

## *IOT Software Engineer at Internet Thailand Public Company Limited*

*July 2018 – July 2020*

- Design specifically suitable IoT solution for various type of enterprise clients' requirement.
- Developed back-end components and communicated with clients to identify their needs and goals.
- Tested and updated existing software and using own knowledge and expertise made improvement suggestions.
- Develop software suitable for hardware and usage characteristics.
- Develop software for connecting device to IoT platform with associated protocols such as MQTT, CoAP and HTTP.
- Develop Linux kernel and Embedded device driver for I2C, SPI, USART, RS232, RS485 (Modbus-RTU), A/D D/A converter, I/O, DMA, real time clock, watchdog motor, other sensors, and actuators.

## Technical Skills

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### Programing

Python

R

JavaScript

TypeScript

Golang

React

Next.js

C

C#

C++

### DevOps

Kubernetes

Docker

ArgoCD

Rancher

Grafana

Prometheus

ELK

Nagios

Shell script

RedHat

Linux

### Cloud

AWS

GCP

Huawei Cloud

Linode

DigitalOcean

### Database

MongoDB

Postgres

MySQL

Firestore

## Professional Certificates

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HashiCorp Certified: Terraform Associate (003)

HashiCorp

Issued Feb 2025 · Expires Feb 2027



GitHub Actions

GitHub

Issued Mar 2025 · Expires Mar 2028



Google Cloud Cybersecurity Certificate

Google Cloud

Issued Apr 2025

## Education

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### Chulalongkorn University

*Master of Science in Statistics: Data Science*

**2021 – 2023**

### Kasetsart University

*Bachelor's Degree, Second class honors of Electrical Engineer*

**2014 – 2017**