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.

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in Kittipat Poonyakariyakorn

○ https://github.com/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

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

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
Issued Apr 2025

Associate Cloud Engineer Certification
Google
Issued Jun 2025

Professional Cloud Architect Certification
Google
Issued Jan 2026

Education

Chulalongkorn University

Master of Science in Statistics: Data Science
2021 − 2023

Kasetsart University

Bachelor's Degree, Second class honors of Electrical Engineer
2014 − 2017