THAM KAEOKET

Junior DevOps / Cloud Engineer

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SUMMARY

Computer Science graduate (Burapha University, 2026) focused on infrastructure automation. As a Cloud Engineer intern, automated the daily health check of 11 client production servers (Linux and IBM AIX) over SSH/VPN with n8n, Docker and GitHub Actions, cutting the morning check from 1–2 hours to about 5 minutes. Enjoys building practical scripts and tooling that remove repetitive operations work; currently learning AWS and Terraform.

EXPERIENCE

Cloud Engineer Intern (Co-operative Education) — A-HOST Co., Ltd., System Management Service · *Nov 2025 – Mar 2026 (17 weeks)*

Project: Automate Daily Monitoring Web Application (sole developer, end to end)

- Automated the daily health check of **11 client production servers** (Linux, IBM AIX), **cutting the morning check from 1–2 hours to ~5 minutes** and removing manual data-entry errors.
- Built scheduled **n8n** automation workflows that connect over **SSH** through FortiClient SSL VPN and collect disk, CPU/memory, database tablespace, AIX error logs (errpt), process and backup status.
- Wrote **JavaScript** parsers that turn inconsistent command output into structured **JSON**, stored as date-partitioned logs and in **PostgreSQL** for trend analysis and monthly client Health Check reports.
- Extended n8n with a custom **TypeScript** node (ssh2) to capture non-interactive AIX `topas` output that the built-in SSH node could not handle.
- Containerized the stack with **Docker Compose** behind an **Nginx** reverse proxy (WebSocket upgrade, long-request timeouts) using multi-stage image builds.
- Set up **CI/CD with GitHub Actions** on a self-hosted runner that rebuilds and redeploys containers on every push to `main`.
- Delivered a React dashboard with color-coded alert thresholds (e.g., disk > 90%) and one-click PDF reports, plus user and admin runbooks for onboarding new servers.

PROJECTS

Smart Bed Sensor — IoT Patient Monitoring System (Senior Project, team of 7) · *Backend & Data Pipeline Developer · 2025–2026*

- Built the real-time data pipeline: an **MQTT** client that binds per-sensor topics by MAC address, ingests SpO2, heart-rate and posture data from **Raspberry Pi** gateways, auto-resubscribes on reconnect, and streams updates to the dashboard over **Socket.IO**.
- Implemented the alerting service (per-patient thresholds, default templates, alert history) on a **NestJS + TypeORM/MySQL** backend; 49 commits as the second-largest of 5 contributors.
- Trained and tuned an **LSTM** (Keras) posture and bed-exit classifier across 5 classes, reaching **99% accuracy (F1 0.99)** vs NN (79%) and SVM (25%) baselines with K-fold validation and timestep tuning (5–25); deployed it for real-time inference over MQTT.
- Secured the API with **JWT** auth, RBAC and bcrypt password hashing; fed live vitals into **Google Gemini** patient summaries with an environment-configurable local **Ollama** fallback.

mumu-auto-farm (Open-source, personal) · *Python*

- Wrote a Python automation bot for the MuMu Player emulator that scripts repetitive in-game workflows end to end.

TECHNICAL SKILLS

- **Cloud & DevOps:** Docker, Docker Compose, Nginx (reverse proxy), GitHub Actions (self-hosted runners), Linux, IBM AIX, SSH, VPN (FortiClient)
- **Scripting & Automation:** Bash, Python, JavaScript / TypeScript, n8n (incl. custom nodes), scheduled jobs
- **Monitoring & Data:** server health checks (df, top/topas, errpt, tablespace), JSON log pipelines, PostgreSQL, MySQL (TypeORM)
- **Messaging & Backend:** MQTT, WebSockets (Socket.IO), REST APIs, NestJS, Node.js / Express, JWT / RBAC
- **Tools:** Git, GitHub, GitLab, VS Code
- **Also familiar with:** React, Vue.js (Quasar), LSTM (TensorFlow/Keras), Google Gemini API, Ollama

EDUCATION

B.Sc. Computer Science — Faculty of Informatics, Burapha University · *Graduated Apr 2026 · GPA 3.28*

Languages: Thai (native), English (basic)