Panupong Suttikasem

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PROFESSIONAL SUMMARY

I am a 3rd-year Computer Science student who enjoys taking real requirements and turning them into working software. I started out with full-stack development, but quickly found my passion in the behind-the-scenes work—especially DevOps, server infrastructure, and Kubernetes. Having already built and deployed end-to-end projects in production, I am looking for a Software Engineering or DevOps internship where I can contribute both my coding and infrastructure skills.

EDUCATION

Thammasat University **Rangsit Campus, Thailand**

Bachelor of Science in Computer Science, 3.42 GPA 2024 - Present

TECHNICAL SKILLS

- **Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, API Gateway, Cognito), GCP, Cloudflare, Kubernetes, Docker, Terraform, GitHub Actions, Ansible, Nginx, Linux
- **Backend & Databases:** Python, Go, TypeScript, FastAPI, NestJS, Express.js, Fiber, PostgreSQL, MongoDB, Prisma, SQLAlchemy, GORM
- **Frontend & UI:** React, Next.js, Vite, LINE LIFF
- **Tools & Integrations:** Git, GitHub, WebSockets, LINE Messaging API, Cloudinary, Boto3, Trivy, Skopeo, Cloudflare Queues/Workers

WORK EXPERIENCE

Thammasat University – TonKit Lab (Intern)

DevOps Engineer (Undergraduate Researcher) | May 2026 – Present
Project: Virtual Lab (Kubernetes-based lab platform for university courses)

- Automated Zero Trust access with Ansible playbooks that provision Cloudflare Tunnel pods and Nginx Ingress on K3s, exposing the SkyPilot API server through outbound-only tunnels without opening internal cluster ports.
- Built an event-driven upload pipeline with Cloudflare R2, Queues and Workers, where instructors upload directly via presigned URLs and files are automatically queued for scanning, decoupled from the backend before reaching Kubernetes.
- Automated a 4-stage DevSecOps image scanning workflow (Fetch, Validate, Scan, Publish) using Kubernetes Init Containers and a self-healing reconciler that retries failed jobs, running a hardened non-root Trivy/Skopeo runner with per-stage secrets.
- Closed a scan-bypass vulnerability by splitting the container registry into a read-only pull endpoint and an htpasswd-authenticated push endpoint, so only security-scanned images can reach the registry and AWS ECR. Delivered as idempotent Ansible roles with built-in post-deployment verification of access rules.
- Codified least-privilege network segmentation as Tailscale ACLs with automated policy tests that block regressions and scripted backup/rollback via API, limiting worker nodes to image pulls and the K3s API while restricting push to the control plane.

Freelance Full-Stack & DevOps Engineer | Sep 2025 – Present

Project: The Zins Beauty & Spa (Enterprise Spa Management System)

- Architected an internal enterprise management system utilizing React (Vite) and Go Fiber, prioritizing high performance and long-term scalability to handle complex business logic for real-time stock inventory and course tracking across multiple branches.
- Implemented a robust session-based authentication system enforced by HTTP-Only, Secure, and SameSite cookies, alongside Role-Based Access Control to strictly isolate privileges between Admin and branch staff accounts.
- Engineered a centralized relational database architecture utilizing GORM, optimizing query logic to securely handle concurrent real-time stock deductions and complex course tracking across 3 active branches.
- Hardened cloud infrastructure on DigitalOcean by enforcing strict VPS security protocols and secure reverse proxy configurations, ensuring high availability and protecting sensitive enterprise data.

Project: Ploy freshfruit | ployfreshfruit.com (E-commerce & Order Management Platform)

- Developed a full-stack e-commerce platform (Next.js, Express.js, PostgreSQL) featuring a custom admin dashboard to manage orders, users, and complex business logic for customizable fruit baskets.
- Integrated LINE Messaging API to streamline admin operations via a custom Rich Menu, enabling seamless payment slip approvals and real-time delivery tracking.
- Delete

Project: Realmed Store (Medical Equipment & Pharmacy Warehouse System)

- Built a warehouse management system for a medical equipment and pharmacy supplier using React, Express.js and MongoDB, owning the backend database design to streamline complex inventory operations.
- Implemented JWT authentication with Bcrypt password hashing and complete staff account management, including CRUD APIs and a secure email-based password recovery flow.

HONORS & AWARDS

- 1st Runner-up, Sony Smart Factory Hackathon 2025: Engineered a real-time manufacturing anomaly dashboard utilizing WebSockets and a dual-backend architecture (Express.js & FastAPI) to dynamically visualize live machine operations and track material waste.

CERTIFICATIONS

- AWS Academy Graduate - Cloud Architecting
- AWS Academy Graduate - Cloud Foundations