

Poolwadol Tonkham (Marsh)

Full-Stack Developer & DevOps Engineer

Email: poolwadoltonkham@gmail.com | LinkedIn: linkedin.com/in/poolwadol-tonkham-a73252290/
GitHub: github.com/lolymarsh | Website: https://aidocs.lolydev.online/ | Location: Khon Kaen & Bangkok, TH

EXECUTIVE SUMMARY

Practical Full-Stack Developer & DevOps Engineer with proven experience building end-to-end software solutions: high-performance Go microservices, modern Next.js 16/React 19 applications, AI integration with SSE streaming, and production DevOps across Kubernetes (DOKS/k3s), Traefik Ingress, and Cloudflare Zero Trust with modern AI workflows.

CORE TECHNICAL COMPETENCIES

- * Backend & Languages: Go 1.25 (Echo, Bun ORM, Goose, Asynq), Node.js (TypeScript, Express.js, Drizzle), Python
- * Frontend & UI: Next.js 16, React 19, Astro 5, Tailwind CSS v4, Zustand, Shadcn UI, Playwright E2E
- * AI & Real-time: LLM Integration, NL to SQL, Server-Sent Events (SSE), Redis AI Cache, MQTT (EMQ X)
- * DevOps & Cloud: Kubernetes (DOKS/k3s), Traefik Gateway, Docker, Cloudflare Zero Trust, GitLab CI/CD, Linux
- * Databases & Cache: PostgreSQL, MySQL, MariaDB 11, InfluxDB (Time-Series), Redis 7, Cloudflare R2 / S3

WORK HISTORY

- 1. Back End Developer & DevOps | Mokaru Development (Thailand) Co.,Ltd.**
Oct 2025 - Present | Full-time | Khon Kaen, Thailand (On-site)
 - Sole ownership of production and staging deployments across Kubernetes (DOKS/k3s), Traefik, and Nginx.
 - Configured Cloudflare Zero Trust, Tunnels, WAF, CDN, and OpenVPN certificates for cluster security.
 - Refactored legacy monolithic services into high-throughput Go backend microservices (Echo + Bun ORM).
 - Designed relational database schemas, automated migrations with Goose, and structured logging with Zap.[Tech: Go, Kubernetes, Traefik, Nginx, Cloudflare Zero Trust, PostgreSQL, Docker, GitLab CI]
- 2. Junior Web Developer (Full-Stack) | Suntine Co., Ltd.**
Aug 2023 - Sep 2025 (2 yrs 2 mos) | Full-time | Pathum Thani, Thailand (Hybrid)
 - Engineered full-stack web modules, designing relational database tables, indices, and RESTful API endpoints.
 - Implemented database transactions and audit logging mechanisms to guarantee data integrity and track changes.
 - Authored Postman API documentation and collaborated closely with cross-functional product teams.[Tech: Go, SQL, PostgreSQL, Postman, Transactions, Audit Logging, React.js, Full-Stack]
- 3. Junior Web Developer (Internship) | Suntine Co., Ltd.**
May 2023 - Aug 2023 (4 mos) | Internship | Pathum Thani, Thailand (On-site)
 - Developed REST APIs with Golang and Echo Framework; integrated PostgreSQL and RabbitMQ message queues.
 - Applied Clean Architecture and Interface-based Dependency Injection to build maintainable microservices.[Tech: Golang, Echo, PostgreSQL, RabbitMQ, Clean Architecture, Dependency Injection]
- 4. Junior Web Developer (Internship) | Autocorp Holding Public Company Limited**
Oct 2022 - Feb 2023 (5 mos) | Internship | Khon Kaen, Thailand (On-site)
 - Built responsive UI components using React.js and MUI (Material UI) with TypeScript.
 - Developed backend APIs with Node.js and Express.js, connecting to MySQL, MongoDB, and Redis databases.[Tech: React.js, TypeScript, MUI, Node.js, Express.js, MySQL, MongoDB, Redis, Git]

SYSTEM DESIGN & ENGINEERING HIGHLIGHTS

- * Multi-DB Transactions & Optimistic Locking: Prevented data races and double-spending in payments & inventory using version columns (WHERE version = ?) and Go transaction helpers across distributed database instances.
- * Natural Language to SQL + Real-Time SSE Streaming: Built AI query translation with read-only SQL sanitizers and token streaming via Server-Sent Events (SSE) coupled with Redis AI caching (TTL 10m).
- * Automated Multi-DB Backup & Recovery Agent: Scheduled Go cron service archiving compressed MySQL/Postgres dumps to S3/R2 with automated test restore verification and instant LINE Notify status alerts.

PRODUCTION PROJECTS & SYSTEM DELIVERIES

1. AI Docs & Developer Knowledge Base Portal (Live: <https://aidocs.lolydev.online/>)
 - Standard AI coding rules, SWE 5-phase workflow guides, and interactive developer tools on Cloudflare Edge.
2. Multi-Environment Kubernetes Platform & Cloud DevOps (MokaruK8s)
 - Production Kubernetes (DOKS/k3s) cluster setup with Traefik IngressRoutes, GitLab CI, and Cloudflare WAF.
3. MBA Enterprise Platform & Admin Portal
 - High-performance Go 1.25 backend (Echo + Bun ORM) and Next.js 16 Admin Panel with Playwright E2E tests.
4. Rao Rak Rayong Civic Platform
 - Go 1.24 Monorepo with PostgreSQL and Asynq background workers for automated high-volume LINE notifications.
5. High-Throughput Bank Slip Verification Microservice
 - Microservice for real-time bank transfer validation integrated with Omise API, JWT auth, and KSUID.
6. KKU Smart Transit IoT Infrastructure
 - Server infrastructure for live campus bus tracking: EMQ X MQTT Broker, InfluxDB Time-Series, and Kong Gateway.

EDUCATION

- * Bachelor of Technology in Computer Programming (GPA: 3.70)
Institute of Vocational Education Northeastern Region 3 / Khon Kaen Vocational College (2023 - 2025)
- * High Vocational Certificate (Diploma) in Computer Programming (GPA: 3.60)
Khon Kaen Vocational College (2021 - 2023)
- * Vocational Certificate in Business Computer (GPA: 2.82)
Khon Kaen Vocational College (2018 - 2021)
- * Junior High School (GPA: 1.68) | Khon Kaen Wittayayon School (2015 - 2018)
- * Primary School & Kindergarten | Kalyanee Wittaya School

LANGUAGES

- * Thai: Native
- * English: Elementary (CEFR A2)