

PAKKAPON CHOMCHOEY

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EDUCATION

Burapha University

Bachelor of Science Program, Software Engineering, GPA 3.73

Chonburi, Thailand
July 2023 – Present

WORK EXPERIENCE

Backend Developer Intern — SAFEALL (ASIA) CO., LTD.

Apr 2025 – Dec 2025

High Availability (HA) & System Architecture

- Engineered Multi-Active HA System: Architected a bi-directional replication system using SymmetricDS, Nginx and Keepalived (VRRP) to manage a Floating VIP ensuring zero-downtime failover.
- Resilience & Chaos Engineering: Implemented Node-Level Failover to resolve cross-server latency issues. Conducted chaos testing (simulating DB/Network/App crashes) to verify seamless recovery for TCP/WebSockets.
- Automated Health Checks: Developed custom Bash scripts for granular monitoring (HTTP status/Process IDs) to trigger automatic VIP migration during critical failures.

Performance Engineering & Optimization

- Benchmarking & Tuning: Benchmarked TimescaleDB vs PostgreSQL (5.5M+ rows) using k6 and custom Node.js scripts.
- Critical Bottleneck Resolution: Identified connection overheads during load testing and implemented Database Connection Pooling significantly boosting throughput and stability across Direct and VIP scenarios.

PEA Dashboard & Reporting System

- Backend Development: Built the PEA Unman Dashboard backend using NestJS, TypeORM and PostgreSQL visualizing real-time status for 4,000+ devices and GIS maps on Grafana.
- Custom Microservice: Engineered a standalone Express.js Service to overcome Grafana Free Tier limitations enabling Thai-supported PDF generation via API triggers embedded in the dashboard.
- Internal Tools: Developed a Centralized Config System, Password Expiry Monitor and File Renaming Agent to automate routine operational tasks.

Frontend Developer Intern — 10 BIT DEVELOPMENT CO., LTD.

May 2024 – June 2024

- Digital Transformation: Developed interactive digital forms for nursing assessments using Vue.js and Bootstrap migrating manual workflows to a centralized paperless system significantly increasing operational efficiency.
 - UX Optimization: Designed interfaces mirroring legacy paper templates to minimize cognitive load ensuring a seamless transition for medical staff without the need for extensive training.
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PROJECTS

Team Lead & Full Stack Developer

July 2025 – Present

Project: Orbis-Track (Enterprise Equipment Management) — Siam Denso Manufacturing

- Architecture & Core Foundation: Architected a scalable Backend using Modular Monolith pattern within a Monorepo. Established the Core Framework (Standardized Responses, Swagger, Security Utils) to enforce code quality for a team of 11 developers alongside designing the complete Database Schema.
- Complex Workflow Engine: Engineered a Dynamic Approval System supporting multi-level hierarchies. Implemented Attribute-Based Routing logic to dynamically direct equipment requests to specific approvers based on item prefixes.
- Real-time Event System: Developed a sequential Real-time Notification System using WebSockets/SSE. Implemented "Tiered Broadcasting" logic where approval actions automatically trigger visibility and alerts for the next authority level.
- DevOps & Delivery: Orchestrated the development lifecycle by managing task distribution, enforcing strict Code Review Standards and establishing Docker for deployment.

Team Lead & Full Stack Developer (OSSD Camp #13)

Feb 2025 – Apr 2025

Project: Site Selection Analysis System (MyMap) — in collaboration with MyOrder Intelligence, LTD.

- Technical Leadership: Led a team of 10 developers through an intensive Agile/Scrum sprint (1-week delivery). Managed Git Workflow, enforced quality via Pull Request Reviews and architected the core Database Schema.
 - Geospatial Engineering: Engineered an interactive map module using Mapbox GL JS, implementing GeoJSON integration and complex CRUD operations for strategic site selection analysis.
 - UI/UX Architecture: Established a Standardized Design System and designed a mobile-first "Sheet-based" interaction model to optimize usability.
 - Backend: Developed a Sales Analytics Dashboard using Laravel/Livewire and implemented Docker Containerization for deployment.
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AWARDS

Best Full Stack Developer Award — OSSD#13 Bootcamp

- Awarded for exceptional individual performance in end-to-end development (Frontend, Backend and Database) throughout the intensive bootcamp.
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EXTRACURRICULAR ACTIVITIES

ETH Global Bangkok 2024 (Hackathon Participant)

Nov 2024

- Participated in a global-scale hackathon focused on Blockchain and Web3. Gained hands-on exposure to the Ethereum ecosystem and decentralized application (dApp) architecture.

University Athlete (Track & Field) — Burapha University

2024 – 2025

- University Representative: Competed in the National Inter-University Games (2024 & 2025).
- Club Member: Active member of the Athletics Club participating in regular training.

Coordination Staff – Barcamp Bangsaen (2nd & 3rd)

- Facilitated on-site operations and venue management for a major tech community event.

Student Union Committee — Faculty of Informatics, Burapha University

2024 – Present

- Coordinated faculty-wide sports activities and executed key student welfare projects.

Team Captain & Coordinator — BUU GAMES 2025 & SCI-TECH 7th

- Managed training schedules and coordinated matches.
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SKILLS

Technical Skills

- Languages: TypeScript, JavaScript (ES6+), Java, SQL, PHP, C#, Bash Scripting, Solidity
- Backend & API: NestJS, Node.js, Express.js, Laravel, Livewire, Socket.io, Zod, Swagger (OpenAPI)
- Frontend: React, Vue.js, Tailwind CSS, Bootstrap, Mapbox GL JS, HTML5, CSS3, jQuery
- Database & ORM: PostgreSQL, TimescaleDB, MySQL, Redis, Supabase, TypeORM, Prisma
- DevOps & Infrastructure: Docker, Linux, Nginx, HAProxy, Keepalived, SymmetricDS, Grafana, k6 (Load Testing), Git

Soft Skills

- Leadership: Agile/Scrum Management, Technical Leadership (Project Lead experience)
- Professional: Self-Disciplined, Team Collaboration, Active Listening, Adaptability, Problem Solving, Inquisitive Nature
- Mindset: Growth Mindset, Passionate Tech Enthusiast, Continuous Learner

Languages

- Thai: Native
- English: Intermediate (IELTS 5.0)