

CHAIKRIT TECHAPLOOG

Senior Full Stack Engineer & Solutions Architect

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

PROFESSIONAL SUMMARY

Solutions Architect and Senior Full-Stack Engineer with 8+ years of experience architecting high-scale industrial IoT ecosystems and enterprise applications. Expert in Next.js, TypeScript, and Python, with a specialized background in Industry 4.0, including MES, Andon systems, and Digital Picking. Proven track record of leading cross-functional teams and delivering regulatory-compliant hardware-to-cloud integrations that significantly reduce operational costs..

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript (ES6+), Python, C# (.NET Core), Go, SQL.
- **Frontend:** Next.js (App Router), React 19, TailwindCSS, Capacitor, Zod.
- **Backend & Infrastructure:** Node.js, PostgreSQL, MongoDB, Redis, Drizzle ORM, REST APIs, Docker, NGINX, AWS (S3/CloudFront), mTLS Security.
- **Specialized Domains:** **Smart Manufacturing (MES, Andon, Digital Picking Systems)**, IoT & Hardware Integration (RS232/Serial), Computer Vision (OpenCV), Payment Gateways (SCB), ETL Pipelines.

WORK EXPERIENCE

Independent Solutions Architect / Full-Stack Consultant | 2024 – Present

- **FPN CRM Platform:** Architected a mission-critical CRM and purchasing data aggregation system to streamline multi-channel business operations. ([Link](#))
- **Automated Weighing & Logistics:** Engineered real-time hardware-to-cloud integration for industrial scales via RS232, ensuring 100% regulatory compliance for logistics and supply chain clients. ([Link](#))
- **InLine-Spec (Visual Inspection):** Designing a high-scale quality control platform using Vue 3 and Ionic, incorporating Human-in-the-Loop (HITL) logic and offline-first mobile synchronization for factory floor environments.
- **Enterprise Security:** Implemented secure internal data distribution architectures using AWS CloudFront and mTLS for sensitive corporate data protection.

Creatus Corporation Ltd. | Senior Lead Developer | 2024 – 2025

- **Team Leadership:** Directed two cross-functional engineering teams (Web and C#) through the full SDLC in an Agile environment, improving delivery velocity and code quality.
- **FinTech IoT Integration:** Spearheaded the integration of Glory Cash Infinity hardware with modern cloud stacks to automate real-time cash management and financial tracking.

Toyota Motor Thailand | Senior Supervisor (Full Stack Developer) | 2012 – 2023

- **Industrial Automation:** Developed and deployed **Digital Picking Systems** and **Andon** visual management boards to optimize production line efficiency and reduce human error.
- **MES & Cost Reduction:** Built a centralized Spare Parts & Warehouse Management System (MES) using Python ETL pipelines, saving over 15 million THB in annual inventory holding costs.
- **Executive Data Strategy:** Engineered complex inventory simulation models in MSSQL and Python to provide data-backed strategic insights to VP and GM-level stakeholders.
- **Digital Transformation:** Automated legacy reporting workflows with Power BI and ETL pipelines, reducing reporting lead times and manual errors by 25%.

EDUCATION

- **Master of Science (M.S.) in Computer Science** | Chiang Mai University
- **Bachelor of Science (B.S.) in Computer Science** | Chiang Mai University