

CHAIKRIT TECHAPLOOG

SENIOR FULL STACK DEVELOPER & LEAD DEVELOPER

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SUMMARY

I am a highly skilled **Senior Full-Stack Developer** with over 8 years of experience in designing and delivering end-to-end software solutions. My technical expertise spans **Next.js, TailwindCSS, Python, .NET Core, PostgreSQL, and MongoDB**, enabling me to architect scalable, high-performance web applications and backend systems. I have a strong background in integrating systems like **Glory Cash Infinity** with complex ERP solutions, streamlining cash handling, and automating operational workflows.

I lead cross-functional engineering teams in developing robust solutions for industries ranging from manufacturing to financial services. My focus on optimizing performance and reliability through **cloud platforms**, and **IoT integrations** allows businesses to reduce costs and improve operational efficiency. I also ensure compliance with industry regulations, such as the **Department of Internal Trade of Thailand** for weighing systems.

Leveraging a blend of technical expertise and strategic business acumen, I deliver impactful solutions that drive measurable results, reduce manual errors, and enhance operational control. I am eager to continue applying these skills in a leadership role within a dynamic, tech-driven organization.

EXPERIENCE

Senior Developer / Lead Developer

Creates Corporation Ltd, / 2024 - present

I lead two engineering teams—**C#** and **Web Application**—in the development of scalable software solutions tailored to diverse customer needs. My role focuses on architecting and deploying systems using **Next.js, TailwindCSS**, and backend services, with an emphasis on **automating workflows** and integrating with **ERP systems** to streamline operations and reduce manual labor.

I oversee end-to-end solution delivery, from technical design and system integration to implementation, ensuring seamless functionality and compliance with industry standards. This includes the integration of **Glory Cash Infinity** machines, enabling businesses to improve cash management efficiency and minimize human intervention.

Key Achievements & Projects:

• Self-Service LPG Ordering System

Designed and implemented a fully automated platform that integrates with **SCB PromptPay API** and **Glory Cash Infinity**, allowing customers to order and pay for LPG via cash or QR code, and receive printed receipts. This solution significantly reduced transaction times and improved customer experience.

Tech & Tools: NextJS, Typescript, .NET Core, MongoDB

• Agriculture Product Buying & Queue System

Developed a system to optimize customer workflows, from check-in to payment. Integrated cash management and queueing systems, which standardized operations and reduced waiting times, resulting in increased throughput and customer satisfaction.

Tech & Tools: NextJS, Typescript, .NET Core, MongoDB, Redis,

• Real-Time Cash Management Platform

Led the development of a centralized cloud platform for real-time monitoring of transactions and cash inventory, integrating local systems with **Glory Cash Infinity** machines. This platform provides shop owners with complete transparency and control over cash operations, reducing human errors and optimizing cash handling through data synchronization between local systems and the cloud.

Tech & Tools: NextJS, Typescript, MongoDB, NGINX, PM2

Senior Supervisor (Full Stack Developer)

Toyota Motor Thailand / 2020 - 2023

I led the development of **data-driven decision-making tools**, focusing on creating **ETL pipelines** using **Python** to extract, transform, and load data from heterogeneous sources, including images and IoT data. My work enabled real-time data collection, calculation, and forecasting, which were critical for improving decision-making processes within the organization. These tools helped optimize operations, improve forecasting accuracy, and enable data visualization for actionable insights.

Key Achievements & Projects:

• QC Inspection Management and Automation (Computer Vision)

Developed a data collection and analysis system that integrates **computer vision** and **IoT data** to automate the vehicle quality control process. This system aimed to enhance the working conditions of the **Quality Inspection (QI)** team by improving ergonomics—reducing physical strain and increasing job satisfaction—while also minimizing human error. The real-time insights provided by the system improved operational efficiency and reduced manual workloads by 50%.

Tech & Tools: Python, ReactJS, NextJS, Django, REST API, OpenCV, TensorFlow, VGG16, ResNet50, PostgreSQL

• Spare Parts & Warehouse Management System

Developed a system to centralize the management and tracking of common spare parts across 3 manufacturing sites. The system collected, calculated, and forecasted inventory data to improve parts ordering accuracy and optimize resource allocation. By integrating **IoT data** and **machine learning algorithms**, the solution enhanced real-time visibility and reduced inventory costs by over 15 million THB.

In addition to system development, I managed infrastructure setup to meet SLA requirements, including configuring **NGINX** for load balancing, **PM2** for process management, and **PostgreSQL read replication** to optimize database performance.

Tech & Tools: Python, ReactJS, ExpressJS, Django, REST API, PostgreSQL, NGINX, PM2

Senior Supervisor (Parts Logistics Operations & Project Management) *Toyota Motor Thailand / 2012 - 2020*

While leading **Parts Logistics Operations**, I utilized my technical and data engineering skills to design and implement monitoring, tracking, and simulation systems. These systems provided critical insights and real-time data that optimized operational workflows, improved decision-making, and reduced costs across departments. My role combined **strategic leadership** and **technical implementation**, leveraging tools such as **Python**, **MSSQL**, and **Power BI** to solve complex logistical challenges.

Key Achievements & Projects:

• Real-time Inventory Simulation System

Developed and implemented a system that extracts, cleans, and analyzes diverse datasets, offering insightful reports and real-time simulations. This system was integral in improving inventory data accuracy by 25% and significantly reducing inventory costs. The dashboards I created were shared across departments to enhance collaboration and streamline daily operations.

Tech & Tools: Python, Excel VBA, MSSQL, Power BI

• Project Planning & Follow-up Dashboard

Designed a comprehensive dashboard for tracking KPIs and project progress across departments. I applied advanced data transformation techniques to integrate heterogeneous data, enabling gap analysis and optimizing resources, thus achieving cost reduction and enhanced productivity.

Tech & Tools: Python, Excel VBA, MSSQL, Power BI

Business Impact:

Through data engineering, automation, and system simulation, I drove improvements in accuracy, reduced human errors, and optimized parts management. My leadership extended across technical and operational domains, ensuring high-impact results for Toyota's logistics and production teams.

EDUCATION

- Master of Science (M.S.) in Computer Science
- Bachelor of Science (B.S.) in Computer Science

Chiang Mai University, Chiang Mai, Thailand : 2009 - 2011

Chiang Mai University, Chiang Mai, Thailand : 2005 - 2009

TECH . STACKS



Python



ReactJS



NodeJS



NextJS



TypeScript



PostgreSQL



MongoDB



Docker



PM2