



# HERO

LEAD SOFTWARE ENGINEER

## About Me

I'm Thanon 55555

## Education

bachelor's degree in computer science

2010

Stanford University

bachelor's degree in computer science

2010

Stanford University

## Profile

Name Thanon Aphithanawat

Age 39

Nationality Thai

## Contact

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## Languages

Thai

Native

## Work Experience

C.P. (Charoen Pokphand Group)

04/2022 - 10/2022

Senior Software Engineer

555555

SCG

12/2020 - 02/2022

Senior FullStack Developer

Responsibilities and Achievements:

- **Project Leadership and Stakeholder Engagement:** Led and actively participated in project team and stakeholder meetings, ensuring clear communication, alignment on project goals, and effective decision-making.
- **Technical Planning and Design:** Spearheaded the planning, design, and decision-making processes regarding the project's technology stack, infrastructure, and cloud provider, ensuring the selection of suitable technologies aligned with project objectives and scalability requirements.
- **Full-Stack Development Leadership:**
  - Independently developed the Dulare Healthcare system from the ground up, showcasing the ability to handle all aspects of a complex software project.
  - Implemented a comprehensive suite of features, including a Content Management System (CMS) for mobile and web content management (similar to WordPress), chat/video call functionality to facilitate communication, reporting tools for data analysis, urgent case notifications for timely response, and stock management systems for efficient resource management.
- **Cross-Platform Development:** Leveraged Flutter to achieve cross-platform development for mobile and web applications from a single codebase, demonstrating proficiency in modern development frameworks and optimizing development efficiency.
- **Frontend Development:**
  - Developed the frontend (client) for web, mobile, and wearable devices using Flutter, ensuring a consistent user experience across different platforms.
  - Developed the CMS frontend using Flutter, providing an intuitive interface for managing content within the healthcare system.

English	Intermediate
⚙️ Skills	
NextJS	Expert
React	Expert
NestJS	Expert
GCP	Expert
Javascript	Expert
Typescript	Expert
SQL	Expert
Flutter	Expert
DevOps	Middle
K8S	Middle
Postgresql	Middle
MongoDB	Middle
NOSQL	Middle
AWS	Middle
Rust	Basic

- **Backend Development:** Developed the backend using NestJS and Firebase, creating a robust, scalable, and secure foundation for the application.
- **Solo Development Expertise:** Successfully managed the project as a solo developer, demonstrating exceptional self-reliance, problem-solving skills, and the capacity to deliver a complex solution independently.

### Thairath

03/2020 - 10/2020

#### Senior Fullstack Developer

##### Responsibilities and Achievements:

- **Full-Stack Development Leadership:** I independently led the full-stack development of the web recruitment system, demonstrating my ability to manage and execute a project from conception to deployment.
- **Team Leadership:** Provided technical leadership and guidance to a team of approximately 15 developers, fostering collaboration, and ensuring project alignment.
- **Frontend Development:**
  - Developed the client-facing frontend using Next.js, creating a user-friendly and intuitive interface for job seekers to browse opportunities, submit applications, and manage their profiles. This focused on delivering a modern and engaging experience for potential candidates.
  - Developed the CMS frontend using React, providing Thairath's HR department with a robust and efficient platform to manage job postings, review applications, and communicate with candidates. This empowered the HR team with the tools they needed for effective recruitment.
- **Backend Development:** Developed the backend using Node.js, establishing a scalable and reliable foundation for the recruitment system. This ensured the system could handle a high volume of traffic and data while maintaining optimal performance.
- **SEO Implementation:** Integrated SEO best practices into the development of the recruitment system to improve its visibility and attract a wider pool of candidates, including:
  - Optimizing website architecture and structure for search engine crawlers.
  - Implementing relevant keywords and meta-tags to improve search rankings.
  - Ensuring website performance and responsiveness for optimal user experience and SEO.
- **GCP Cloud Implementation:** Utilized GCP services, including Compute Engine (VMs), to provision and manage the infrastructure for the recruitment system. Implemented Docker containers for efficient application deployment and scalability. Configured network settings within GCP, including VPCs, firewalls, and load balancing, to ensure security, high availability, and optimal performance of the web application. Managed the deployment process to publish the web application to production, including: Setting up CI/CD pipelines for automated builds and deployments. Configuring domain name settings and SSL certificates. Monitoring application performance and ensuring system stability.
- **Agile Scrum Implementation:** Worked within an Agile Scrum development methodology, participating in sprint planning, daily stand-ups, sprint reviews, and sprint retrospectives. This fostered collaboration, transparency, and iterative improvement throughout the project lifecycle.
- **End-to-End Ownership:** Took ownership of the entire development process, ensuring seamless integration between the frontend and backend, and delivering a fully functional recruitment system that met Thairath's specific needs.

### Localhub (Self Startup)

03/2019 - 02/2020

## Fullstack Developer & Founder

### Responsibilities and Achievements:

- **Founder and CEO:**
  - Founded and served as CEO of a startup developing a multi-platform smart hotel software solution (web, Android, and iOS), leading the company in negotiations to secure funding from hotel partners.
- **Full-Stack Development Leadership:**
  - Oversaw the entire software development lifecycle, from initial concept and design to implementation and testing, for a comprehensive smart hotel management system.
  - Engineered and implemented hotel automation features controllable via smartphone, including automated door locks, lighting, and air conditioning systems, demonstrating a capacity for innovative IoT solutions.
  - Spearheaded the development of hotel client-facing features, covering booking, payment processing, property management tools, renter permissions, and machine learning (ML) applications, showcasing a user-centric approach to software design.
  - Directed the integration of Optical Character Recognition (OCR) technology for passport and ID card reading, enhancing guest check-in and data capture processes and demonstrating a focus on efficiency and security.
  - Led the development and integration of facial recognition technology for guest identification and ID verification, improving security, streamlining guest recognition, and showcasing expertise in advanced technologies.
- **Technical Implementation:**
  - Guided the development of the mobile frontend using Flutter, ensuring cross-platform compatibility and a consistent user experience.
  - Directed the development of the web frontend using React, creating a responsive and interactive platform for hotel management and client access.
  - Oversaw the development of the backend using Node.js and Firebase, establishing a robust and scalable foundation for the software.
  - Spearheaded the implementation of IoT functionalities using Python with the Zigbee protocol, enabling seamless communication and control of hotel devices.
  - Directed the integration of payment gateways, including 2C2P and PayPal, to facilitate secure and convenient online transactions.

## Freelancer

06/2017 - 12/2025

### Freelance Software Engineer

- Developed and modified penetration testing tools, including:
  - Remote Administration Tools (RATs)
  - Windows User Account Control (UAC) bypass exploits
  - Browser exploits for Chrome and Firefox
  - Brute-force tools for web applications, SMTP, RDP, and email services
  - Clipboard hijacking tools
  - JavaScript injectors
  - Proxy grabbers
  - Information gathering tools
  - Tools to bypass antivirus software (Fully UnDetectable - FUD)
  - Web phishing and domain spoofing tools
  - macOS exploits
- Developed programs using Python, AutoIt, C#, and JavaScript
- Conducted mass spam marketing campaigns via email, social media, and online forums

- Implemented operational security (OPSEC) measures, including:
  - Configuring VPN over VPN with custom-developed private VPNs
  - Operating virtual machines on cloud platforms
  - Utilizing private browsers to prevent data collection
  - Employing private operating systems (Tails/Whonix)
- Conducted testing to:
  - Validate that tools could bypass a range of antivirus solutions
  - Verify that exploits functioned across various operating systems and versions
  - Evaluate attack operations to ensure they were undetectable by users

## **Aware Corporation Limited**

02/2016 - 12/2017

### **Software Engineer**

#### **Responsibilities and Achievements:**

- Developed and delivered custom web and mobile application solutions to address specific client needs and business challenges, utilizing Agile principles to ensure adaptability and client satisfaction.
- Participated in Agile ceremonies such as sprint planning, daily stand-ups, sprint reviews, and sprint retrospectives, contributing to iterative progress and frequent releases of web and mobile applications.
- Designed, developed, and implemented web and mobile applications within Agile frameworks, simplifying workflows, boosting efficiency, and enabling business growth for clients through continuous improvement.
- Collaborated with cross-functional Agile teams, including developers, testers, and product owners, to customize and tailor web and mobile applications for integration with existing client infrastructure using iterative Agile development.
- Built digital tools to simplify workflows, boost efficiency, and integrate systems using Agile web and mobile development practices, creating custom-fit technology solutions that have improved client operations, delivered incrementally.
- Developed solutions for business intelligence, custom software, mobile application development, and web development within an Agile environment, creating tools that distill complex data into clear, actionable insights for clients through web and mobile interfaces, refined and optimized through Agile iterations.
- Ensured web and mobile applications are reliable, scalable, secure, and user-friendly, with continuous improvement through Agile feedback loops, successfully customizing and developing web and mobile applications for leading companies, adapting to changing requirements through Agile.
- Collaborated with clients and stakeholders in Agile settings to gather requirements, provide updates, and ensure alignment on web and mobile projects, developing mobile applications that have enabled clients to connect with their users effectively, using Agile for user-centric development.
- Stayed updated on the latest technologies and Agile best practices in web and mobile development to provide cutting-edge solutions, implementing testing processes that have enhanced the quality and reliability of web and mobile applications, with continuous integration and delivery in an Agile pipeline.
- Implemented comprehensive measures to safeguard data and networks from threats, incorporating Agile security practices for web and mobile, and building impactful websites that have extended clients' reach and capabilities, with Agile iterations to ensure optimal performance and user experience.

## Trinitech Co.,Ltd

11/2012 - 12/2015

### Intelligent Solution Manager

- **Developer & Technical**
  - **Responsibilities and Achievements:**
    - Developed digital signage software solutions.
    - Performed research and development to determine compatible hardware for digital signage software.
    - Integrated digital signage infrastructure, encompassing software, hardware, and network components, into client projects.
    - Provided technical expertise and skills to support project management activities.
    - Supervised system installation procedures and quality control measures.
    - Created digital content, including web applications, graphics, and video materials.
    - Efficiently and effectively resolved client issues.
- **Management**
  - **Responsibilities and Achievements:**
    - Engaged in strategic planning for the company's new digital signage products.
    - Developed digital signage products, encompassing both software and hardware components.
    - Spearheaded the introduction of new products to the market by analyzing requirements and overseeing product development.
    - Cultivated relationships with new partners and suppliers to expand sales opportunities.
    - Participated in events and seminars to present product solutions and generate leads.
    - Conducted project analysis and planning to ensure successful project execution.
    - Drove projects to completion, ensuring timely delivery and client satisfaction.
- **Sales**
  - **Responsibilities and Achievements:**
    - Managed business projects selling to government and private sector clients.
    - Negotiated tender and contract terms to secure favorable agreements.
    - Analyzed costs and sales data to optimize profitability.
    - Prepared necessary documents, including TOR (Terms of Reference), BOM (Bill of Materials), and Quotations.
    - Delivered technical presentations and demonstrated product capabilities to meet client needs.
    - Drove project success through effective sales strategies and client relationship management.
    - Utilized the CRM (Salesforce) platform for sales management and tracking.

## Everpure Co., Ltd. (SodaPure)

10/2010 - 06/2012

### Web Developer & IT Support

#### Duties: Web Developer

- **Responsibilities and Achievements:**
  - Conducted research and analysis of competitor websites and e-commerce trends.
  - Planned and executed website projects, from conception to completion.
  - Developed e-commerce systems for websites.
  - Designed website UX/UI, banners, and logos to enhance user experience and brand identity.
  - Developed and maintained databases and implemented security protocols.
  - Managed domain and hosting registration and administration.
  - Implemented SEO strategies and managed online marketing initiatives, including Facebook Fanpage, YouTube channel, blogger outreach, Google AdWords, and Facebook Ads campaigns.
  - Recorded and edited company video presentations.

## **Duties: IT Support**

### **Responsibilities and Achievements:**

- Installed and maintained the company's computer systems and network infrastructure.
- Performed system upgrades and updates to ensure optimal performance and security.
- Conducted troubleshooting and repairs to resolve computer issues efficiently.
- Provided assistance to office staff with computer application inquiries.
- Delivered computer technology training to new staff members.
- Recommended products and solutions to improve business infrastructure.

## **The Laguna Home**

11/2009 - 09/2010

### **Web Programmer**

#### **Responsibilities and Achievements:**

- Developed and maintained the company website, ensuring a dynamic and effective online presence.
- Designed website UX/UI, banners, and logos, contributing to brand identity and user engagement.
- Developed and maintained databases, and implemented security measures to protect sensitive information.
- Managed domain and hosting registration and administration.
- Implemented SEO strategies, and managed Facebook Fanpage, Google AdWords, and Facebook Ads campaigns to enhance online visibility.
- Planned network and system diagrams to optimize IT infrastructure.
- Installed and configured Linux server systems.
- Implemented network solutions to ensure efficient connectivity.
- Maintained the company's IT systems, ensuring reliable operation.

## **Ozone Net Co., Ltd.**

03/2005 - 08/2007

### **IT Technical Support**

#### **Responsibilities and Achievements:**

- Provided comprehensive technical support, encompassing hardware, software, and end-user issue resolution.
- Served as the primary point of contact for all IT and technical inquiries, delivering timely and effective assistance.
- Contributed to the development of IT infrastructure and systems to align with company requirements.
- Operated within a TCP/IP network environment, managing DHCP, DNS, and Ethernet protocols.
- Participated in the deployment of software updates and patches, ensuring system stability and security.
- Investigated and resolved specialized and complex IT support challenges.
- Liaised with third-party technical specialists to facilitate issue resolution and system enhancements.
- Configured and managed backup and restore procedures to safeguard data integrity.

- Maintained a diverse range of computer hardware and software programs, ensuring optimal performance.
- Identified and reported on the budgetary implications of IT projects and upgrades, promoting cost-effective solutions.
- Provided secondary support for LAN administration, assisting in network management.
- Allocated tasks to junior staff and delivered induction training to new personnel, fostering team development.
- Deployed new hardware and server backups, and evaluated new software and security risks to maintain a secure IT environment.

## Portfolio

### Thairath Recruitment System (Open Source)

- Stacks: Next.js, Node.js, Postgresql, AWS, Redis, Redux, Docker, TypeORM, Restful

#### Thairath Recruitment Platform

The Thairath recruitment platform is a comprehensive system designed to streamline the entire recruitment process, integrated with HR systems to provide a seamless transition from initial application to employee onboarding.

#### Key Features:

- **End-to-End Online Application:** Facilitates a complete online application process, from initial candidate application to final employee onboarding.
- **Recruitment Back-Office Management:** Provides a robust back-office system for efficient management of the recruitment workflow.
- **User-Friendly Interface:** Offers a friendly and intuitive user experience to simplify job searching and application.
- **Real-time Multi-Filter Job Search:** Enables candidates to search for jobs using real-time multi-filter options for precise and efficient search results.
- **Optimized Job Posting SEO:** Implements best practices for Search Engine Optimization (SEO) to maximize the visibility of job postings.

### park2go

- Stacks: Flutter, Nest.js, MongoDB, Firebase, GCP, Google Map, Mobx, Redis, 2C2P, Restful, Mongoose

#### Park2Go: Smart Parking Solution

Park2Go is a mobile application was developed by Flutter/Nest.js and designed to simplify the parking experience for users. It provides a user-friendly platform to search for available parking spaces, access real-time parking status, and manage parking transactions efficiently. The app aims to save users time and money by providing comprehensive parking information and facilitating seamless parking management.

#### Project Features:

- **Parking Space Discovery:** Enables users to search for parking locations and view their availability in real-time.
- **Real-time Parking Status:** Displays current parking capacity and availability, allowing users to make informed decisions.
- **Navigation Assistance:** Provides navigation to the user's chosen parking location.

- **Instant Booking:** Facilitates immediate reservation of parking spaces.
- **Payment System Integration:** Offers a user-friendly payment system for convenient parking transactions.
- **Pricing and Information:** Displays parking lot locations, prices, and other relevant information.
- **Discounts and Promotions:** Integrates discount and promotion features to enhance user value.
- **Parking Terms Management:** Supports various parking terms, including hourly, daily, and monthly options.



## Smart Asset Management

- Stacks: React, Node.js, Redux, Knex, Redhat Server, Microsoft Sql, Redis, Docker, Restful

### Smart Asset Management System

The Smart Asset Management system is a comprehensive asset management platform developed for a government bank (GSB). This project aimed to migrate traditional paper-based processes to a smart, online system, streamlining operations and improving efficiency.

#### System Overview:

The system is designed to facilitate the management of the government bank's auction and foreclosed assets. It comprises three key divisions:

1. **Auction Asset Management (NPL) Division:** Focuses on the management of non-performing loans and auction assets.
2. **Foreclosed Asset Management (NPA) Division:** Handles the management of the bank's foreclosed assets.
3. **Public Relations Website:** Serves as a platform to publicize asset information to interested parties.

#### User Groups:

The system caters to three distinct user groups with varying levels of access and functionality:

1. **Bank Employees:** Have full access to both the Auction Asset Management (NPL) and Foreclosed Asset Management (NPA) divisions.
2. **Outsource Companies:** Have access to the Foreclosed Asset Management (NPA) division.
3. **General Public/Property Interested Persons:** Have access to the Public Relations Website section.

#### System Features:

- **Auction Asset Management (NPL) Division:**
  - Asset pricing
  - Asset purchasing
  - Auction announcement date recording
  - Sales result recording
  - Debt settlement result recording
  - Management of transferred assets to settle bank debts
- **Foreclosed Asset Management (NPA) Division:**
  - Bank asset information management
  - Foreclosed asset information management



- Foreclosed asset splitting
- Foreclosed asset details:
  - Property condition inspection
    - Renovation and repair
    - Evicting residents
  - Payment of common fees
  - Tax payment
  - Appraisal and reserve management
  - Debt payment allocation
  - Title deed management:
    - Collection and control of title deeds
    - Withdrawal of title deeds from safe deposit boxes
    - Submission of title deeds for conversion
  - Management of foreclosed assets with problems:
    - Withdrawal of title deeds from safe deposit boxes
    - Claims management
  - Property insurance management (new and renewal)
  - Land boundary and certification
  - Property rental management:
    - Recording rental income
    - Tracking rental income
    - Lease extension/cancellation
  - Property sale price determination/discount/review:
    - Property reservation
    - Property sale:
      - Transfer of ownership (requires title deed withdrawal)
        - Property insurance cancellation
      - Write-off
        - Revenue sharing
        - Payment of compensation
    - Request for transfer of ownership extension
    - Cancellation of property sale:
      - Refund of the sale proceeds
      - Forfeiture of sale proceeds
  - Promotion activities
- **Public Relations Website:**
  - Publicizes information on bank assets, including:
    - Auction assets
    - Bank assets
    - Assets awaiting sale
  - Enables interested parties to:
    - Participate in auctions with the Department of Enforcement
    - Purchase assets from the bank



## Localhub









- Stacks: ReactNative, Node.js, Mysql, Redux, Redis, Restful, TypeORM, Restful

### **Localhub: Smart Local Area Service Application**

Localhub is a smart local area service application designed to transform traditional businesses by connecting them with customers through a map-based interface. This tool empowers users to discover and access a wide range of local services, enhancing convenience and accessibility.

### **Project Highlights:**

- **Smart Business Transformation:** Facilitates the transition of traditional businesses to a smart, digitally accessible format.

- **Map-Based Interface:** The images clearly show a map as a central element, indicating a location-based service. 
- **Search Functionality:** There are search bars or search icons, suggesting that users can search for specific locations, businesses, or services. 
- **Category Filtering:** Images show categories or filters (e.g., "Hotels," "Restaurants") allowing users to narrow down their search. 
- **Location Pins/Markers:** The map displays pins or markers representing locations of businesses or services. 
- **Business Listings:** Images show lists or cards displaying business names, addresses, and potentially ratings or reviews. 
- **Business Details:** There are screens showing detailed information about a specific business, including images, descriptions, and contact information. 
- **Booking/Reservation Functionality:** Some images suggest booking or reservation options. 
- **User Profile/Account Management:** There are icons or sections related to user accounts, settings, or login. 
- **Navigation/Directions:** The map interface likely integrates navigation or direction features



## Sabuy Wash

- Stacks: Flutter, Nest.js, Postgresql, Redis, GetIt, Prisma, AWS, Sabuy Payment, Docker, Firebase

### Sabuy Wash: Automatic Laundry Platform

Sabuy Wash is a cross-platform solution designed to revolutionize the laundry service experience. Developed for both web and mobile, it provides a comprehensive platform for both business owners and customers in the automatic laundry sector.

#### Platform Components and Features:

- **Web Platform (for Business):**
  - Branch transaction management
  - Stock monitoring
  - Machine monitoring
  - Summary income generation
  - Charge management
  - Wallet system integration
- **Mobile Platform (for Client):**
  - Laundry location display on a map
  - Machine control functionality
  - Machine availability monitoring
  - Machine processing monitoring
  - Wallet system integration
  - Multi-method payment support
  - Event notification system

#### Technology:

- Frontend: Flutter (for cross-platform compatibility on web and mobile)

## Dulare Healthcare

- Stacks: Flutter, Nest.js, Mongodb, Mongose, Redis, GetIT, Firebase, GCP, WebRTC

### Dulare Healthcare Platform

Dulare Healthcare Platform is a minimal healthcare solution designed for nursing homes or small hospitals, providing a cross-platform experience (web, mobile, and smartwatch) from a Flutter single codebase.

#### Platform Components and Features:

- Web Platform (CRM/ERP Management for Admin):**
  - Summary dashboard (patient, stock, appointment)
  - Stock management
  - Patient management
  - Business or branch management
  - User management
  - CRM (generate dynamic content for routine forms or patient testing forms)
  - Maintenance (backup/restore database)
  - Chat messenger
  - Voice call
  - PDF Report Generate
- Mobile Platform (Smart Nursing App):**
  - Particular patient list by user
  - Patient information (profile, disease, BMI, medical indicator, etc.)
  - Patient follow-up
  - Patient care routine management
  - Patient stock management (drug, medical tools)
  - Chat messenger
  - Voice call
  - Notification (emergency, routine time, appointment)
  - PDF Report Generate
- Smartwatch Platform (Medical Measure App):**
  - Heart rate measurement
  - Oxygen measurement
  - Temperature measurement
  - Data synchronization to the server every 10 minutes

## Global Trade Platform

- Stacks: React, Node.js, Oracle Database, AWS, Restful, Azure DevOps, Terraform, Knex, MUI, Grafana-Prometheus

### Global Trade Platform: A Large-Scale Import-Export System Modernization

The Global Trade Platform project centered on the modernization of a legacy overseas import-export software system for C.P. and its partners. This system is a critical component of their operations, processing over \$10 billion in transactions annually.

#### Project Description:

The project involved a comprehensive migration and enhancement of the existing system, with the following key objectives:

- Technology Stack Modernization:** Transitioning the system to a modern technology stack utilizing React for the frontend and Node.js for the backend.

- **User Experience Enhancement:** Implementing a modern and user-friendly UX/UI design to improve usability and efficiency.
- **Functional Expansion:** Incorporating new features and functionalities, including enhanced partner management, order processing, shipping logistics, tax calculations, legal compliance tools, credit management features, and other user-requested enhancements.

**Project Scope and Challenges:**

This was a large-scale undertaking, involving:

- A team of over 50 members.
- More than 150 stakeholders.
- Oversight by 3 Project Managers (PMs).

A significant challenge was the age of the legacy software (over 25 years) and the unavailability of the original development team. The project team addressed this by employing reverse engineering techniques on the production system to understand its functionality and ensure a successful migration.