

# Chaleampol Treeboon

## Senior Full-Stack Engineer (DevSecOps & AI Integration)

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### Executive Summary

Senior Full-Stack Engineer & Modernization Specialist with 12+ years of experience in the C# .NET Ecosystem. Designed and developed end-to-end systems, covering upgrades, migrations, and new implementations. Managed the full process from Requirement Gathering, System Analysis & Design (Use Case / UX / UI / Class Diagram / Database / Document) to presenting Prototypes to Stakeholders. Executed planning and development for SIT, UAT, Security Testing, and Go-Live, providing post-deployment support. Successfully delivered over 25 projects on both On-premise and Cloud Platforms (Azure, AWS) using Manual and Automated CI/CD (Jenkins, GitHub Actions). Ready to leverage AI Integration to enhance business value, delivering stable, secure, and scalable solutions.

### Technology and Skills

- **Frontend:** HTML5, CSS3, JavaScript, ES5, ES6+, jQuery, AJAX, AngularJS, Vue.js
- **Backend:** C#, .NET, .NET Core, .NET Framework, ASP.NET Core, ASP.NET MVC, RESTful API Design, OData API, .NET Worker Service
- **Databases:** SQL Server, PostgreSQL, Oracle, MySQL, MongoDB
- **Architecture:** Monolithic, Microservices, 3-Tier, Event-Driven Architecture, Asynchronous Processing, System Decoupling, API Gateway, Message Queues (RabbitMQ), Dependency Injection, Repository, Unit Of Work
- **Cloud & DevOps:** Microsoft Azure, AWS, On-premise Deployment, Virtual Machines (VMs), Docker, Linux, Ubuntu, Windows Server, IIS, Jenkins, GitLab CI/CD, GitHub Actions, Azure Application Insights, Traefik, Cloudflare, Azure API Management, Azure Container Apps, Azure Database for PostgreSQL Flexible Server
- **Authentication & Security:** OAuth 2.0, OpenID Connect (OIDC), Active Directory Integration, JWT, PKCE, Auth0 Integration, Secure Secret Management, Azure Key Vault, Keycloak
- **Software Development Lifecycle (SDLC):** Waterfall, Agile, Scrum, Requirements Gathering, Analysis & Design, UX/UI Design & Prototyping, UML, Use Case & Class Diagram Design, System Design, Database Design, Sprint Planning, Backlog Management
- **Development & Collaboration Tools:** VS Code, Visual Studio, Git, GitHub, GitLab, Bitbucket, Jira, Trello, Miro, Draw.io, Moqups, Visual Paradigm
- **UI Libraries & 3rd party:** MUI (Material-UI), Telerik & Kendo UI, Bootstrap, Chart.js, DataTables, K-Bank Payment Gateway Integration, Line, Telegram, Open AI ChatGPT, Google Gemini API, FlowiseAI
- **Automated Testing:** E2E (Playwright), Unit, Integration & API Testing (xUnit, Moq, Testcontainers, Postman, Newman)

## Professional Experience

### Senior Full-Stack Developer — Export-Import Bank of Thailand | Dec 2025 – Present (Contract)

- Migrated legacy ASP.NET WebForms (ASPX) to a modular architecture using .NET Core 7, implementing Domain-Driven Design (DDD) and CQRS patterns to address EOS/EOL (End of Service/Life) and Security Vulnerability Assessment (VA) requirements.
- Upgraded ETL Workflows (SSIS) from version 2008 to 2022, resolving compatibility issues and optimizing performance to meet EOS/EOL and VA standards.
- Conducted Proof of Concept (PoC) for migrating SSIS workloads to Microsoft Fabric.
- Upgraded Apache and PHP server environments to mitigate security vulnerabilities (VA) and ensure compatibility with Laravel and Moodle frameworks.
- Stack & Tools: C# .NET Core 7 Web MVC, Windows Server, IIS, MS SQL Server, Git, GitLab, Sourcetree.

### Senior Full-Stack Developer — Fujitsu (Thailand) | Aug 2023 – Jul 2024 (Contract)

- Upgraded legacy systems and developed new solutions for Mizuho Bank to comply with ISO 20022 standards, following System Analyst (SA) specifications.
- Delivered weekly progress reports and status updates to the Project Manager.
- Stack & Tools: C# .NET Core 7 RESTful API Web API, Windows Server, IIS, Windows Service, Console App, Vue.js 3, Quasar Framework, Oracle DB, MS SQL Server, Jenkins CI/CD pipeline, Git, Gitlab, Sourcetree.

### Senior Full-Stack Developer (New BU) — HUA SENG HENG | Mar 2023 – Jun 2023 (Full-time)

- Designed a modern, convenient, and fast prototype for an online TFEX account opening system, enabling users to complete registration within 5-8 minutes.
- Designed and developed a system to fully automate the import and reporting of daily closing stock prices, replacing a manual process. The system also sent success/failure notifications via Line Notify.
- Stack & Tools: C#, .NET 6 RESTful API, C# Console App, AngularJS, JavaScript, CSS3, SQL Server, Kendo UI, Bootstrap, AWS EC2, Windows Server, Git, Bitbucket, Sourcetree, Moqups.

### Senior/Lead Full-Stack Developer — Asia Plus Securities | Apr 2021 – Feb 2023 (Full-time)

- Led the development of the Staff Disclosure system to reduce paper usage, increase convenience and speed, and ensure compliance with SEC regulations. Oversaw the full development cycle from requirements gathering to production deployment, supporting both the parent and subsidiary companies. Coordinated with various departments and stakeholders, planned development, structured Software Design Patterns for both Frontend and Backend, provided consultation to the team, resolved issues, tracked progress, and integrated with the company's central system.
- Designed and developed the QR Payment Service for securities deposits and subscriptions, creating a good, convenient, and fast user experience while reducing errors. Integrated this service into the existing system.
- Designed and developed APIs for Bitkub API, FX data, and Implied Vol to retrieve values and prices for display to customers.
- Stack & Tools: C#, .NET Core 3.1 RESTful API, Console App, Windows Server, Active Directory, Huawei Cloud (CCE), Console App, GoAnywhere, HTML, JavaScript, CSS3, Bootstrap, AngularJS, Telerik & Kendo UI, SQL Server, PostgreSQL, Docker, GitLab, GitLab CI/CD, Jira, Miro, Visual Paradigm.

### **Senior Full-Stack Developer — Honda Leasing (Thailand) | Aug 2020 – Mar 2021 (Contract)**

- Designed and developed the "Contract Closing Control" system, a full-cycle workflow for closing customer vehicle lease contracts with the company, increasing speed and reducing errors in the contract closing process.
- Modified the existing system to support the E-Tax system, which was provided by a vendor.
- Stack & Tools: C#, .NET Core 3.1 RESTful API, C# ASP.NET MVC, AngularJS, jQuery, JavaScript, CSS3, HTML5, Bootstrap, Telerik & Kendo UI, SQL Server, iTextSharp, Crystal Reports.

### **Founder / Full-Stack Developer — King Tech Soft | Jul 2019 – Mar 2020 (Full-time)**

- Designed and developed the "Smart Booking System" for ticketing at Muang Boran and Erawan Museums Samut Prakan. The system used QR Codes for check-ins and access to various services, a POS for restaurants, vendor/tour guide management, and features for issuing current and historical receipts/tax invoices for accounting. It also included a dashboard for real-time and end-of-day sales reporting. This increased convenience, speed, reduced bottlenecks, and saved employees 3-4 hours of work per day. The system currently handles over 200,000 transactions.
- Designed and developed an online condominium booking deposit system with credit card payments, integrating with the K-Bank Payment Gateway.
- Stack & Tools: C#, ASP.NET MVC REST API, AngularJS, jQuery, SQL Server, Telerik & Kendo UI, Chart.js, Bootstrap, HTML5, JavaScript, CSS3, Cloud VMs Windows Server, IIS, SSL Let's Encrypt.

### **Senior Programmer — GEC Service (PTT Group Vendor) | Mar 2018 – Jun 2019 (Contract)**

- Developed systems such as PTTEP Smart Procurement Proposal Workflow, Procurement system, PTT Smart Vendor, PTT Smart Contract, and PTT Group Strategic according to specifications from the S.A. Assisted with design and enhancing UX/UI.
- Stack & Tools: C#, .NET Framework, C# ASP.NET Framework MVC REST API, AngularJS, jQuery, HTML5, JavaScript, CSS3, SQL Server, Telerik & Kendo UI, RDLC Report.

### **Senior Programmer — PTT Digital | Jun 2017 – Feb 2018 (Contract)**

- Developed the "Digital Ask" system; designed a Microservice and Auth Server to implement Single Sign On (SSO).
- Developed the Inventory system and improved the Risk Assessment system according to specifications from the S.A.
- Stack & Tools: C# ASP.NET Framework MVC Web, ASP.NET Framework MVC REST API, AngularJS, jQuery, HTML5, JavaScript, CSS3, SQL Server, Materialize CSS, RDLC Report.

### **Programmer / Business Development Specialist — GM CORP | Dec 2013 – May 2017 (Full-time)**

- Developed the Credit Bureau Automation system for CIMB Bank.
- Designed and developed a foreign currency exchange POS system for Asia Exchange Samrong, which is still in use today.
- Designed and developed internal systems such as Summary Report, Job Application, Travel Reimbursement, Time Backward, and Payslip for organizational use.
- Stack & Tools: C# ASP.NET Framework MVC Web, ASP.NET Framework MVC REST API, PHP, AngularJS, jQuery, HTML5, HTML4, JavaScript, CSS2, CSS3, SQL Server, MySQL, Telerik & Kendo UI, RDLC Report, Bootstrap.

## IT Support — Thai Textile Industry PCL | Nov 2012 – Nov 2013 (Full-time)

- Provided computer and network support for both the head office and branches, installed various programs, and maintained equipment.
- Designed and developed an automated system for managing computer specification data.
- Stack & Tools: PHP, MySQL, HTML4, CSS2.

## SEO Specialist & Web Developer — Siamwebthai | Oct 2010 – Oct 2012 (Full-time)

- Optimized client websites for keywords to rank in the Top 10 on Google; managed websites and hosting.
- Designed and developed an automated web system for Amazon Affiliate, available for use and monthly subscription (Subscribe).
- Stack & Tools: PHP, MySQL, JavaScript, HTML4, CSS2, jQuery, WordPress, Joomla, OpenCart, SMF, Discuz, Web Scraping.

## Recent Upskilling & Personal Projects

### Dec 2025 – Present

- **System Overhaul & Migration to Serverless Architecture:** Designed and migrated infrastructure from self-managed Azure VM (IaaS) to highly optimized Serverless and PaaS systems with near-zero maintenance, significantly reducing both workload and server costs.
- **Frontend Rebuild & SEO/AIO Optimization:** Completely redesigned the portfolio platform (cv.teeleek.me) with modern UI/UX, fully supporting Google Search (SEO) and AI Search (AIO), and migrated from VM to Cloudflare Pages for global loading speed and automated deployments.
- **Cloud-Native Backend & Message Queue:** Redesigned and improved C# .NET 8 RESTful API & CI/CD, migrating from Containers on VMs to Azure Container Apps (with scale-to-zero for cost savings). Implemented API Gateway & Security via Azure API Management and managed secrets through Azure Key Vault with Managed Identities. Migrated self-hosted queue to CloudAMQP (RabbitMQ) for stable and seamless background email processing.
- **AI RAG & Database Migration:** Upgraded the AI Resume Assistant by migrating from Flowise on Container VMs to Flowise Cloud, and moved both VectorDB and contact form data tables from Azure PostgreSQL to Supabase (PostgreSQL).
- **Studied and implemented Redis** for a Proof of Concept (POC) in Caching to increase data access speed and reduce primary database workload.
- **Load Testing with K6** and implemented Monitoring (including Database Metrics) via Grafana + Prometheus to monitor and improve End-to-End performance.
- **Designed and simulated High Availability (HA) PostgreSQL** with Read Replicas on Docker Environment to study and test Database Reliability mechanisms.
- **Applied Elasticsearch and Kibana** to create a high-performance Read Model for complex searching and reporting, helping to offload read traffic from the primary database based on Performance Optimization concepts.

**Apr 2025 – Sep 2025**

- **Cloud-Native & DevSecOps:** Designed and deployed a highly secure infrastructure on Azure VMs (Ubuntu/Docker). Implemented a Zero-Trust Ingress architecture by removing Public IPs and utilizing Cloudflare Tunnel with Traefik for automated routing and Wildcard Auto SSL. fully automated the workflow via CI/CD pipelines (Jenkins & GitHub Actions) and configured key infrastructure services including Keycloak (Auth Server) and RabbitMQ.
- **Web, Microservices & AI Integration:** Developed a portfolio platform using VanillaJS and C# .NET Core 8 RESTful API. Integrated Azure API Management (Gateway), RabbitMQ, and Azure Key Vault (utilizing Azure Managed Identity & OIDC Federated Credentials). Leveraged Azure PostgreSQL Flexible Server for contact data and VectorDB for the AI Resume Assistant (RAG), secured by Cloudflare Turnstile. Engineered custom APIs with MongoDB and a custom OAuth 2.0 service to extend ChatGPT capabilities. Established a comprehensive Automated Test Pyramid integrated within Jenkins and GitHub Actions pipelines.

## **Certifications & Training**

- **Greatfriend Business Development Company Limited — 2015**
  - Essential Object-Oriented System Analysis & Design
  - Essential OOP and Design Patterns
  - Building AngularJS Applications
- **Technical Training Center — 2014**
  - Querying Microsoft SQL Server 2012

## **Education**

- **B.Sc. in Information Technology** — Southeast Bangkok College, 2015
- **Higher Diploma in Information Technology** — Attawit Commercial College, 2012
- **Vocational Certificate in Business Computer** — Attawit Commercial College, 2010