Songwit Phitakjariyachat

Lead Software Engineer

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SUMMARY

Lead Software Engineer with 20+ years of software development experience, from C#/.NET and ASP.NET to full-stack TypeScript with React, Next.js, Vue/Nuxt and NestJS. Main developer of production systems at SCG for roof design and estimating, document processing with optical character recognition (OCR), warehouse management, risk management, production planning and dependency vulnerability tracking. Works with SQL Server, PostgreSQL, MongoDB, Docker, CI/CD on GitHub Actions, AWS and Microsoft Azure. Speaker at SCG Digital AI Factory events.

SKILLS

- Leadership: Team leadership, System design, Sprint planning, Code review, Mentoring, Pre-sales solution design
- Languages: C#, VB.NET, TypeScript, JavaScript, Go, Python, SQL
- Backend: .NET, ASP.NET Core, ASP.NET Web API, Node.js, NestJS, Express, TypeORM, REST API, Swagger (OpenAPI), WebSocket
- Frontend: React, Next.js, Vue.js, Nuxt, Blazor, Ant Design, Material UI, Tailwind CSS
- Cloud: AWS, Microsoft Azure, Google Cloud Platform (GCP)
- Databases: SQL Server, PostgreSQL, MySQL, MongoDB, SQLite
- DevOps & tools: Docker, CI/CD, GitHub Actions, Git, Nginx, n8n, Jira

EXPERIENCE

Lead Software Engineer, SCG Digital | Jan 2026 – Present

- Lead a team of 5 developers on a one-year project that rebuilds the roof design and estimating platform as one unified system, replacing scattered legacy subsystems. Own the technical direction and co-design the system architecture.
- Set up sprint planning, task breakdown and code review for the team, and mentor its developers.
- Support the pre-sales team on 8 client opportunities with solution design, effort estimation and demos.
- Rebuilt an AI-prototyped production planning dashboard into a production system for SCG’s ceramic roof-tile business, with stock and backorder monitoring, production plans, raw-material projection, single sign-on (SSO), page-level permissions and security hardening (Next.js, NestJS, MongoDB, Docker).
- Built a companion make-to-order (MTO) planner on the same architecture, authoring about 97% of its 380+ commits.
- Main developer of the FlexOCR client portal since Oct 2025, authoring about 95% of 500 commits: document templates, PDF handling, multi-page optical character recognition (OCR) jobs run on the backend, job history and usage tracking (Next.js, NestJS, TypeORM).
- Main developer of an enterprise risk management platform since Sep 2025, authoring about 80% of 770+ commits: risk scoring, approvals, reminders, change history and reporting dashboards behind Microsoft Entra ID (Azure AD) sign-in (Nuxt, Vue, NestJS, MySQL).
- Main developer of a dependency end-of-life (EOL) and vulnerability dashboard, authoring 85 of 97 commits on its development branch: remediation campaigns that track one CVE across hundreds of repositories and update each status after every scan, replacing a spreadsheet tracker, plus Microsoft Entra ID (Azure AD) sign-in and role-based access (React, TypeScript, Express, PostgreSQL).
- Presented FlexOCR and n8n workflow automation with SharePoint at SCG Digital AI Factory Showcase 2026.

Software Engineer, WEDO, SCG | Dec 2022 – Jan 2026

- Main developer of a web warehouse management system (WMS) for a factory, authoring about 80% of 1,300+ commits: inbound, put-away, manual picking, outbound, cycle counts, location monitoring and mold control (React, Express, SQL Server, Docker).
- Main developer of a roof design desktop application since 2023, authoring about 80% of 1,000+ commits: roof plans, tile and equipment rules, solar legends and DXF export (VB.NET, C#).
- Developed and extended the C# services and shared library that turn roof designs into bills of quantities (BOQ) and quotation data, including job workflows and reference-data APIs (ASP.NET Core, Blazor, PostgreSQL, AWS).
- Contributed to an internal audit risk planning system (NestJS, TypeScript, Microsoft Azure).

C#.NET Developer, PTT Digital Solutions Company Limited | Mar 2022 – Dec 2022

C#.NET Developer, Thasai Kanok Co., Ltd. | 2008 – Feb 2022
Also Logistics Manager and Assistant Sales Manager from 2016.

.NET Developer, Thai Administration Services Co., Ltd. | 2005 – May 2008

.NET Developer, IT Best Co., Ltd. | Apr 2004 – Jul 2005

PROJECTS

TokenMonitor | 2026

- Central history of AI token usage across machines. Dependency-free agents read local logs from Claude Code, Codex, Gemini CLI and Kimi, then send usage to an ingest API with a separate token for each machine. (TypeScript, Node.js, SQLite, Docker, GitHub Actions)

PDF Plan Mirror Tool | 2026

- CAD-style mirroring for PDF building plans. Flips the vector drawing inside a selected area, moves its text without reversing the letters, and leaves everything outside untouched. (Python, PyMuPDF, Tkinter)

Tetis Royale | 2026

- Original block-stacking battle royale with a WebSocket room server, private rooms joined by code or QR, bots, and a host display for playing on a big screen. (JavaScript, Node.js, WebSocket)

Queue management POC | 2026

- Queue system with QR tickets, live status in a LINE LIFF app, push notifications, priority queues and an admin panel. (React, TypeScript, Express, SQLite, LINE LIFF)

GoHoot | 2026

- Real-time quiz game platform from Digital Office’s Go community, with WebSocket game sessions and Azure AD sign-in. (Go, React, PostgreSQL, WebSocket, Azure AD)

SPEAKING

- AI Factory Showcase 2026, SCG Digital, 2026
- AI Factory Workshop, SCG Digital, 2026

EDUCATION

Master of Science, Information Technology | King Mongkut's University of Technology Thonburi, 2006 – 2007

Bachelor of Business Administration, Business Computer | Siam University · First Class Honors, 2001 – 2004