

Poklin Tey

Solutions Architect — Data, AI & Automation

14 yrs

software delivery: 6 interactive, 8 enterprise

50+ projects

delivered on launch dates that could not move

3 months

to build the AI engine and an OCR capture product, solo

CONTACT

Location Selangor, Malaysia
Email poklin8@gmail.com
Portfolio poklin.com/work
LinkedIn linkedin.com/in/poklin-tey-4a563b38
Status Malaysian citizen

AI & LLM

- Claude API
- OpenAI
- Gemini
- Ollama
- LM Studio
- Claude Code
- MCP servers
- Agent skills
- Provider-agnostic LLM client
- Per-feature provider settings
- Output verification
- Per-call cost telemetry
- Token budgets

DOCUMENTS & ECM

- Enterprise content management
- Template OCR
- Anchor matching
- Intelligent document processing
- PP-OCR
- Tesseract
- Confidence routing
- Human-in-the-loop review

AUTOMATION & INTEGRATION

- n8n
- REST APIs
- Entra ID SSO
- Adobe Sign
- DocuSign
- Git / Gitea
- WhatsApp & Telegram bots

DATA & BI

- SQL Server
- Stored procedures
- Data modelling
- Data migration
- Idempotent DB scripts
- DOMO
- Apache Superset
- Seal Report

Profile

Hands-on solution architect who updates legacy enterprise software without breaking it. 14 years in software delivery: 6 years coordinating client projects and a 10-person project team at FrameMotion, then 8 years as the lead engineer extending an enterprise content-management platform deployed on clients' own infrastructure, on-premise or in their own cloud, mainly in Malaysia, with one client in Singapore, serving banks, insurers, government, healthcare and private-sector clients (names under NDA). Led its AI retrofit end to end: an in-process AI engine (one interface over six LLM providers, cloud or self-hosted, with per-call cost tracking), and Capture Studio, a template-based OCR product with confidence-based routing built to replace third-party capture licences — both built solo in about three months. Comfortable owning a technical function alone.

Experience

Dynamic Worklabs Sdn Bhd

Jun 2018 – present

Solutions Architect (AI) · subsidiary of Software Dynamics, Selangor

Joined when the company's enterprise content-management platform, deployed on each client's own infrastructure, was already in production; spent 8 years extending the legacy .NET codebase with new modules and integrations, and in 2026 led its AI retrofit and a standalone capture product, after working hands-on with LLMs since 2024. Specify the hardware and infrastructure; clients procure it themselves, on-premise or in their own Azure tenancy, and I deploy onto it. Handled deployment, go-live, upgrades and integrations for enterprise clients including an Islamic bank and a listed pharmaceutical group. De-facto technical owner across a 3-person engineering team.

AI & DOCUMENT CAPTURE

- Wrote a four-phase AI roadmap for the platform and presented it to management: AI foundation, scale and governance, experience and insights, and search across documents. Phases 1 and 2 are done; now leading Phase 3.
- Wrote the product spec, then designed and built its AI engine, a VB.NET library that runs inside the portal and the capture service. It gives summaries, metadata extraction, classification and auto-tagging, Q&A on one document, AI bulk upload and a vision mode for photos and scans, through one interface over six providers (Claude, Gemini, OpenAI, Azure OpenAI, Ollama, LM Studio). Each feature has its own provider setting, with an OCR fallback. Core built solo, alongside Capture Studio, in about three months.
- Built cost and quality checks: each AI call logs the model, tokens, time and cost (never the document text); each feature has a monthly token budget in each client's own deployment, with an alert at 80%; and every extracted field is checked against the source and flagged if it is not found.
- Made the AI safe to run at scale: bulk processing across queues, three operating modes (Auto-Pilot, human-in-the-loop and hybrid), and an audit report of every AI decision.

HOSTING

On-premise deployment

Server sizing

Windows Server + IIS

Azure VMs

Azure Backup

Cloudflare (Pages, Tunnel)

CODE

VB.NET

C#

.NET 10

WPF

Java

Python

PHP (Laravel)

SQL

Flutter/Dart

SwiftUI

Three.js

Docker (dev & testing)

WAYS OF WORKING

Spec → plan → TDD

PRDs

ADRs

Conventional Commits

UI/UX design

SPOKEN

English · Mandarin · Malay

EDUCATION

Bachelor of Computer Science

Application Programming & Web Development · Taylor's University (RMIT-affiliated) · 2009–2011 · CGPA 3.2

CERTIFICATIONS & AWARDS

- Anthropic: Claude Code 101 · Claude Code in Action · AI Fluency · Agent Skills · Claude Cowork (2026)
- Silver Award, Malaysia Technology Expo 2012 — FThat, an Android location and messaging app

- Priced the next phase before building it: search across many documents with an LLM (RAG) costs about 500 times more than a semantic search, so it is kept for tasks that need a written answer, not every screen.
- Built Capture Studio, a standalone product: template OCR with anchor matching, confidence thresholds per field, per template and per batch, and routing that auto-indexes only high-confidence results while sending the rest to human review or LLM fill-in; built to remove the dependency on ABBYY and Kodak Capture Pro.
- Architected Capture as 19 VB.NET and C# projects: a Windows Service, a WPF template design studio, a standalone capture station and an OCR sidecar (PP-OCR and Tesseract), with a shared engine multi-targeted to net481 and netstandard2.0 so .NET Framework and .NET 10 code can both use it; now extending it with a Verification Station, template-free AI extraction for clients who do not want to draw templates, and modules such as passport reading, so it runs fully standalone and can be sold as a separate product, without the content platform.
- Designed two ways for documents to come in: n8n collects files from email, SFTP and scanner folders (with fallbacks for failed or duplicate files) and Capture writes the file plus metadata XML for any system; or users upload in the portal and results are saved through the platform's existing stored procedures.

INTEGRATIONS & DELIVERY

- Delivered enterprise integrations in production: Microsoft Entra ID SSO with concurrent-session enforcement, Adobe Sign and DocuSign e-signature, Entra directory sync.
- Integrated a signature-cropping service with an Islamic bank's core banking system, deployed it to production, and resolved a go-live blocker caused by incorrect network details on the bank's side.
- Ran client onboarding and upgrades, and designed the Gitea branching strategy for several product versions in use at once.
- Migrated clients onto the platform from their legacy systems: scripted migrations from client databases, mapping and validating metadata, and coordinated scanning teams to digitise physical archives.
- Brought both modules into the production portal without changing any existing stored procedure, table or behaviour: database changes are additive only, shipped as idempotent, versioned scripts with a matching verification script.
- Built operational tooling: hardware-bound licence failover between production and backup VMs, plus monitoring and alerting for client deployments.

DATA & REPORTING

- Built custom reports for client departments in Seal Report, covering performance KPIs and workflow approval and rejection status, and integrated Apache Superset into the platform for drag-and-drop self-service reporting.
- Now leading Phase 3: a new design system with dark mode and WCAG 2.2 accessibility, and a self-built reporting and insight engine (dashboards, accuracy trends, exports) to replace the legacy report tool.

FrameMotion Studio Sdn Bhd

Apr 2012 – May 2018

Project / Digital Coordinator Specialist · Selangor

- Client-facing project coordinator for a 10-person project team, including the in-house developers. Scoped, priced and delivered 50+ short-cycle projects over six years — event installations, mobile apps, Facebook apps, websites and event systems — against launch dates that could not move.
- Notable projects: Expo Negaraku 2017, Dataran Merdeka; World Expo Astana 2017, Malaysia Pavilion; Star Trek: The Starfleet Academy Experience (2016) — RFID registration system and 20+ interactives. Tech included Microsoft Kinect, projection mapping, kiosks and mobile.

Allianz Malaysia

Jan – Apr 2012

Software Engineer · Kuala Lumpur

- Java and SQL work on core insurance systems.