

CHANAKA KASUN DE SILVA

Senior Software Engineer / Tech Lead — Forward Deployed Engineering

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PROFESSIONAL SUMMARY

Client-facing software engineer with 10 years of experience delivering end-to-end solutions for enterprise customers in banking, PropTech, field services, e-commerce, and fintech. Proven at owning the full delivery lifecycle — scoping requirements directly with business stakeholders, rapidly prototyping, integrating third-party enterprise platforms, and shipping and supporting production systems used by national banks and international clients. MSc in Information Security; combines deep technical delivery with stakeholder communication, team leadership, and mentoring.

CORE COMPETENCIES

- Customer discovery and solution architecture: scoping, designing, and supporting production systems directly with enterprise clients
- End-to-end product ownership, from lead acquisition and CRM through scheduling and field operations to invoicing and payments
- Rapid prototyping and business-process automation under tight timelines
- Security-first engineering (MSc InfoSec; author of a Laravel application-security package)
- Team leadership and mentoring of junior engineers

TECHNICAL SKILLS

Languages: Python, PHP, JavaScript, Go, Java, C#, C++, HTML5, CSS3

Frameworks: FastAPI, Laravel, React, Vue.js, CodeIgniter, jQuery, Bootstrap

APIs & Integrations: REST, GraphQL, gRPC, payment gateways, blockchain APIs

AI: OpenAI API, LLMs, RAG, vector search (pgvector), human-in-the-loop review workflows, AI agents (LangGraph, OpenAI Agents SDK), MCP & tool calling

Cloud & Data: AWS, GCP, Docker, Kubernetes, Terraform, GitHub Actions CI/CD, Linux, PostgreSQL, MySQL, Redis, S3-compatible storage

Practices: System design, JWT/OAuth authentication, observability (OpenTelemetry, Prometheus, Grafana), technical documentation, production incident response, performance & cost optimization, Agile delivery

PROFESSIONAL EXPERIENCE

Tech Lead / Senior Software Engineer

i4T Labs Pvt Ltd | April 2024 - Present

- Lead engineering for enterprise-grade PropTech and Field Service Management (FSM) platforms serving customers across Oceania, the UK/Europe, and the Americas.
- Deliver end-to-end digital workflows spanning lead acquisition, CRM, quoting, scheduling, field operations, invoicing, payments, and service delivery — the platform earned a 96.9% customer satisfaction score (2025 Australian Achiever Awards, VIC State Winner).
- Integrate third-party enterprise platforms and automate business processes, replacing manual administrative workflows for clients.
- Set technical direction and mentor a team of 5+ engineers as Tech Lead.

Senior Software Engineer

Ascentic Pvt Ltd | December 2023 - April 2024

- Full-stack engineer on a multi-tenant e-commerce platform serving a Sweden-Finland enterprise group, collaborating with distributed European stakeholders.

Senior Software Engineer

Saberion Pvt Ltd | July 2021 - November 2023

- Delivered and supported production web platforms for 3 of Sri Lanka's 5 largest banks — Commercial Bank (BestWeb 2023 Gold), NDB Bank, and Bank of Ceylon — including CMS platforms, the Commercial Bank Flash mobile app backend, and production incident response.
- Designed and built REST APIs powering mobile and web applications for finance-sector clients including LB Finance and LOLC (BestWeb 2023 Gold).
- Delivered bespoke enterprise systems end-to-end: Asia Securities central user management & equity forms, NIBM CRM, Careems jewellery store & product management, Amaya Resorts reservations support, and the LankaClear console.
- Revamped Virakesari.lk — a high-traffic national news platform — and its e-paper product.

Senior Software Engineer

Xiteb Pvt Ltd | August 2019 - June 2021

- Built Laravel e-commerce solutions with payment-gateway integrations (GENXT web shop).
- Developed the company CRM platform (Laravel + Vue.js) and an Applicant Tracking System.
- Rapid-response build: launched an online home-delivery shopping platform during the COVID-19 lockdown (CodeIgniter).
- Owned QA/QC for responsive, cross-browser flagship sites — hodabass.lk won BestWeb 2020 Gold (non-profit) and overall Bronze.

Software Engineer / Lead Developer

Visanduma R&D Pvt Ltd | January 2016 - August 2019

- Built a cryptocurrency payment-gateway API (Laravel + Blockchain API) and an ICO crowdfunding platform for a private investor network in Amsterdam.
- Worked directly with international clients to deliver official web platforms and CMS for Amsterdam businesses: Delirium Café and Top Tours & Events.

Intern Software Engineer

SimCentric Technologies Pvt Ltd | April 2015 - October 2015

- Built an internal C++ visual-debugging toolkit and a VBS plugin rendering roads and crossings on 3D world maps (C++, Fusion).

SELECTED PROJECT

Enterprise AI Invoice Processing Platform

Personal production-grade build | github.com/devchan/fde-enterprise-invoice-platform

- Architected and built an end-to-end AI document-processing platform covering secure invoice upload, queued AI extraction (OpenAI), business-rule validation, human-in-the-loop review, approval with a complete audit trail, pgvector similar-invoice search, plus an MCP server and an in-app tool-calling AI assistant over shared tenant-scoped read-only tools.
- Backend in Python/FastAPI — 30 REST endpoints backed by 154 automated tests — with PostgreSQL + pgvector (HNSW), Redis-backed workers, JWT authentication, and a React frontend; deployed via Docker, Kubernetes manifests, and Terraform, with CI via GitHub Actions.
- Production-grade engineering: strict extraction schemas with prompt versioning, token/cost tracking, SHA-256 duplicate-upload guard, signed URLs, rate limiting, and tenant-scoped S3 storage.
- Authored executive-level architecture documentation: layered system design, data model, STRIDE threat model, SLOs, and Kubernetes deployment topology.

Architecture review: devchan.github.io/fde-enterprise-invoice-platform/architecture-view.html

EDUCATION

- Executive MSc in Information Security — Asia e University, Malaysia (2016–2018)
- BSc (Hons) in Computer Science & Technology — Uva Wellassa University, Sri Lanka (2011–2015)

RESEARCH & AWARDS

- MSc research: an all-in-one application-security package for the Laravel PHP framework.
- BSc research: facial-feature recognition from freehand criminal sketches (C++, OpenCV).
- BestWeb Sri Lanka: Gold 2023 (Commercial Bank, LOLC); Gold & overall Bronze 2020 (hodabass.lk).