Hafiq Iqmal

Lead Back-End Developer & Solution Architect | Tech Lead | API & Cloud Systems

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PROFESSIONAL SUMMARY

Lead Back-End Developer and Solution Architect with 10+ years delivering secure, scalable digital systems for enterprise and government clients across Malaysia. Specializes in API-first platform design, cloud-native infrastructure, and full-cycle technical ownership — from tender proposals through to production. Delivered 20+ production systems spanning water utilities, agrifood, military pension, and public services — consistently driving architecture, performance, and security with an 80% shortlisting rate on competitive bids. Currently building SaaS products (HauraForm, Dokai, Envnest) alongside enterprise delivery.

WORK EXPERIENCE

Lead Back-End Developer / Tech Lead
Terato Tech Sdn Bhd

Apr 2021 – Present

Owning end-to-end solution architecture across enterprise and government systems, driving secure engineering practices, cloud infrastructure, and technical strategy.

- Lead end-to-end solution architecture across 20+ active projects spanning enterprise and government sectors
- Delivered systems serving millions of users, including water utility customers across Selangor, KL, and Putrajaya
- Define and enforce Secure Software Development Lifecycle (SSDLC) across requirements, design, development, testing, and deployment
- Establish secure coding guidelines, dependency risk management, and SAST via self-hosted SonarQube
- Integrate SAST into CI/CD pipelines and enforce quality gates, blocking vulnerabilities before they reach production
- Design scalable CMS and API architectures, including migration from traditional to Headless CMS and API-first models
- Architect, manage, and monitor dedicated servers and cloud environments for reliability, observability, and cost efficiency
- Introduced load testing practices using Locust to validate system reliability under production-scale traffic
- Lead technical solution design for 20+ tender proposals, achieving 80% top-3 shortlisting rate on competitive bids
- Act as primary technical escalation point and architectural decision-maker across all active projects

Senior Software Engineer
Terato Tech Sdn Bhd

Jan 2020 – Apr 2021

Led CMS and API platform management for enterprise clients, owning infrastructure reliability, system overhauls, and cross-project technical support.

- Led management and maintenance of CMS and API platforms for Air Selangor, supporting millions of active users
- Overhauled Kitajaga CMS from a legacy system, improving platform performance and significantly reducing maintenance overhead
- Configured and managed dedicated servers, establishing monitoring pipelines for consistent system stability
- Maintained high uptime across production systems through proactive incident detection and resolution
- Provided continuous cross-project technical support, reducing escalation backlog and improving team delivery pace

Software Engineer
Terato Tech Sdn Bhd

Jan 2017 – Jan 2020

Full-stack development spanning Android and Laravel, delivering production systems from on-premise monoliths to cloud-native deployments.

- Led development of CMS and API platforms for Air Selangor, establishing the foundation for a system now serving millions of users
- Migrated Air Selangor infrastructure from on-premise (Ubuntu 16.04, PHP 7.2, Nginx) to Alibaba Cloud, improving scalability and reducing operational costs
- Implemented CI/CD pipelines, reducing deployment cycles and improving release reliability across multiple projects
- Delivered Bepunct V1 HR platform (Laravel and Android) handling employee leave, claims, and HR administration for enterprise clients
- Designed and implemented BCiS API using CodeIgniter 2 for the GreenTech Malaysia mobile application
- Built and published multiple Android applications to Google Play Store for government and enterprise clients

Android Developer
Terato Tech Sdn Bhd

Jul 2016 – Jan 2017

Android application development for government and enterprise mobile solutions.

- Developed and published Android applications to Google Play Store for government and enterprise clients
- Participated in User Requirement Specification (URS) sessions, translating client needs into technical specifications

- Implemented REST API integrations and delivered incremental application enhancements

Android Developer Intern
Terato Tech Sdn Bhd

Feb 2016 – Jul 2016

Internship focused on hybrid mobile application development and proof-of-concept projects.

- Developed Domino App POC, converting Domino MY/SG websites into hybrid mobile applications
- Built a file-sharing application combining web-based and native mobile capabilities

TECHNICAL SKILLS

Framework	Laravel, CodeIgniter, Next.js, Nuxt.js, Livewire, Alpine.js, Tailwind CSS, Bootstrap, Go, Python
Database	PostgreSQL, MySQL, Redis, MongoDB
Cloud & Infrastructure	AWS, DigitalOcean, Cloudflare, Vercel, Alibaba Cloud, Docker, Nginx, Linux
DevOps	GitLab, GitHub, SonarQube, Postman, Redmine, Jira, Deployer
Security & Auth	OAuth, SAML, JWT, SSO
AI & Workflow	OpenAI, Anthropic, AI Workflow Automation
Architecture	System Design, Architecture Design, API-first, Headless CMS

KEY PROJECTS

Air Selangor Mobile App
Air Selangor — Feb 2018 – Aug 2025

Backend API and CMS for the official mobile application serving consumers across Selangor, KL, and Putrajaya.

Laravel · PHP · Nginx · Kubernetes · Alibaba Cloud · CI/CD

Farmbyte Downstream
Farmbyte — Sep 2023 – Oct 2025

Architecture and development of a scalable eCommerce platform connecting consumers with Agrofood products.

Laravel Octane · PostgreSQL · Docker · AWS · Locust · REST APIs

LTAT MyWira Application
Lembaga Tabung Angkatan Tentera — Oct 2020 – Jan 2026

CMS and API for the Armed Forces Fund Board mobile application, managing pension fund member services.

Laravel · REST APIs · CMS

SAMB Mobile App
Syarikat Air Melaka Berhad — Jul 2025 – Present

Complete backend system for Melaka water utility mobile application with cloud-native architecture.

Laravel · Laravel Octane · PostgreSQL · AWS · CloudFormation · Nginx · Livewire · Laravel Volt · Cloudflare

Mobile Jejak Asnaf (MoJA) 2.0
MAIWP – Majlis Agama Islam Wilayah Persekutuan — Dec 2025 – Present

Backend CMS and API for a government mobile platform tracking and managing asnaf (zakat recipients) data, featuring SSO integration and cloud-hosted infrastructure.

Laravel · Laravel Octane · Livewire · PostgreSQL · REST APIs · SSO · Ubuntu · Linux

Customer Experience Dashboard
Air Selangor — Oct 2022 – Aug 2025

Internal analytics dashboard aggregating customer experience data across all Air Selangor service channels.

Laravel Octane · NuxtJS · Kubernetes · Alibaba Cloud · Docker · REST APIs · PostgreSQL

iERP Air Selangor
Air Selangor — Jul 2020 – Jun 2025

Emergency response plan system for water disruption scheduling and monitoring across Selangor regions.

Laravel · Livewire · Kubernetes · Alibaba Cloud · MySQL · Docker

Ranhill SAJ E-Submission
Ranhill SAJ — Nov 2022 – Jun 2024

Digital transformation of project submission workflow, replacing manual processes with a modern web platform.

Laravel Octane · Nuxt 3 · REST APIs · Nginx · Ubuntu

Kitajaga.co
Jul 2021 – Jan 2023

Community Initiative · Nonprofit community platform rebuilt from legacy CMS with enhanced features for connecting people in need.
Laravel, CMS

Bepunct V2: HR Solution
Jan 2025 – Present

Terato Tech · Second-generation HR management platform with modernized architecture and improved performance.
Laravel, Laravel Octane, PostgreSQL, Cloudflare, Docker, Nginx

CERTIFICATIONS

CLOUD, ARCHITECTURE & STRATEGY

Building a Generative AI Tech Strategy
LinkedIn Learning · Jun 2024

Software Architecture: Domain-Driven Design (DDD)
LinkedIn Learning · Jun 2024

Architecting on AWS
Trainocate Malaysia · May 2021

DEVOPS, DEVSECOPS & SECURITY

DevSecOps: Automated Security Testing
LinkedIn Learning · Jun 2024

DevOps Foundations: DevSecOps
LinkedIn Learning · Jun 2024

CTCSW – CompTIA Cybersecurity Workshop
Trainocate Malaysia · Dec 2023

CLOUD CERTIFICATIONS

AWS Certified Cloud Practitioner
Amazon Web Services (AWS) · Nov 2020 · Expired Nov 2023

AWS SSCA – Shift and Shape Your Cloud with AWS
Trainocate Malaysia · Jun 2024

AI & AUTOMATION

RASA Developer Certification
Rasa · Nov 2020

ENGINEERING LEADERSHIP

Tech Career Skills: Moving from Developer to Engineering Manager
LinkedIn Learning · Jun 2024

PERSONAL PROJECTS

SOCWarden
2026 – Present

Security event monitoring platform with real-time threat scoring, MITRE ATT&CK mapping, and async enrichment pipeline. Multi-service architecture with dashboard, ingestor, enricher, and lightweight agent with SDKs for Laravel, Node.js, Python, Go, and browser.

`Laravel` `Go` `Python` `PostgreSQL` `Redis` `Livewire`

Skolmind
2026 – Present

School management SaaS platform with multi-tenant white-label support, plan-gated features, and offline mobile sync. Three-repo architecture spanning landing page, core admin app, and mobile app for teachers and parents.

`Laravel` `Next.js` `React Native` `PostgreSQL` `Redis` `Livewire` `Expo`

HauraForm
2026 – Present

Headless form backend infrastructure as a SaaS. Create and manage forms via dashboard or API with built-in validation, workflow automation, spam protection, webhooks, and multi-tenant team management.

`Laravel` `Laravel Octane` `Next.js` `PHP` `PostgreSQL` `Stripe` `AWS S3` `+2`

Dokai
2026 – Present

Document intelligence API that converts identity documents (MyKad, NRIC, KTP, passports, driver's licenses) into clean, validated JSON in under 2 seconds. Built for KYC workflows across Southeast Asia with per-field confidence scoring, encrypted processing, and REST API integration.

`REST API` `AI/ML` `Document OCR` `JSON` `KYC`

Envnest
Mar 2026 – Present

Terminal-native secrets management platform for dev teams. Encrypted, versioned .env storage with push/pull sync, runtime injection, AI-powered diff, RBAC, and audit logging. AES-256-GCM envelope encryption with optional AWS KMS.

`Next.js` `CLI` `AES-256-GCM` `AWS KMS` `GitHub Actions`

Envitee
Jan 2020 – Dec 2020

Digital card invitation platform for companies. Each subscribing company receives their own subdomain and CMS/portal for managing invitations. Multi-tenant SaaS architecture.

`Laravel` `PHP` `Multi-tenant`

Undangan.MY
Dec 2018 – Jan 2023

Digital wedding invitation platform, featured in Kosmo newspaper. Full product ownership from concept to launch.

`Laravel` `PHP`

EDUCATION

Bachelor of Science (Mathematics & Computer Science)
2014 – 2016
Universiti Teknologi MARA (UiTM)

Diploma in Computer Science
2011 – 2013
Universiti Teknologi MARA (UiTM)

LANGUAGES

Malay (Native) · English (Professional)

AWARDS & PUBLICATIONS

AWARDS

Favourite Person Award   2021

Best Performance Award   2021

PUBLICATIONS

Driver Behavior State Recognition Based on Silence Removal   2015
Speech

EARLIER PROJECTS — RECRUITER REFERENCE

PIDM Android App Prototype
Perbadanan Insurans Deposit Malaysia   Feb 2019 – Mar 2019

Prototype mobile application for PIDM, a government agency established to administer deposit insurance and insurance benefits protection systems.

Android · Java

JAKIM Smart Hadith App
JAKIM / MCMC   Oct 2018 – Jan 2019

User-friendly platform for accessing authentic hadith, with collections organized by book, chapter, narrator, and more. Developed in collaboration between MCMC and JAKIM.

Android · Java

JAKIM SmartHalal Android App
JAKIM   Feb 2017 – Oct 2017

Consumer app for checking halal certification status of food products, premises, slaughterhouses, consumables, cosmetics, pharmaceuticals, and logistics. Officially launched by then-Deputy Prime Minister Zahid Hamidi.

Android · Java · MVP

MATRADE MyExport & Trade2Media
MATRADE   Feb 2016 – Jun 2017

Mobile applications for Malaysia External Trade Development Corporation. Also delivered Android development training (Beginner Level) to MATRADE staff.

Android · Java

Commission Securities InvestSmart Android App
Securities Commission   Aug 2016 – Sep 2016

Investor empowerment initiative helping create more informed investors who can make better investment decisions based on dynamic content data.

Android · Java

Operations Mobile Application (OMA)
Air Selangor   Jul 2020 – Nov 2020

Suite of 6 operational applications (AISMAP, AIS LEAK, AIS VALVE, GRIS, DMZ, TRUNKMAIN) supporting field operations and infrastructure monitoring. Helped achieve 28.6% NRW, exceeding SPAN target. Winner of Malaysia Technology Excellence Awards 2021.

Android · Java

Air Selangor Front End Phase 2
Air Selangor   Apr 2019 – Oct 2020

User interface development for Air Selangor front end using Vue.js.

Vue.js · JavaScript

MyPesara
KWAP / JPA / NBOS   Jul 2018 – Oct 2018

Revamped CMS and API for the retirement management system, an initiative from collaboration between KWAP, Bahagian Pasca Perkhidmatan, JPA, and NBOS.

Laravel · PHP

Bepunct V1: Cloud Central Attendance System
Terato Tech   Jun 2017 – Jun 2018

Employee management system that automatically synchronizes employee status changes across systems for seamless HR management. The foundation for Bepunct V2.

Laravel · PHP · MySQL

Bepunct Personal Staff Android App
Terato Tech   Aug 2017 – Aug 2018

Mobile app providing employees easy access to manage claims, leaves, and other HR tasks. Built with Android Java using MVP architecture.

Android · Java · MVP

BCiS Green Tech Malaysia API
GreenTech Malaysia / KeTTHA   Sep 2017 – Jan 2018

API web services for GreenTech Malaysia mobile app, catalysing green technology deployment in Malaysia. Built using CodeIgniter with Laravel-inspired architecture patterns.

CodeIgniter · PHP · REST APIs

Foresight Analytics CMS + API
NDA   Apr 2017 – Jul 2017

NDA government analytics application built with Laravel.

Laravel · PHP

Lembaga Lebuhraya Malaysia Enhancement
Lembaga Lebuhraya Malaysia   Dec 2016 – May 2017

Enhanced UI for LLM website using CodeIgniter with responsive design. Included conducting training in CodeIgniter PHP and Git for client staff.

CodeIgniter · PHP · Foundation 5 · Git

Kitajaga.co
Community Initiative   Jul 2021 – Jan 2023

A nonprofit platform to help people in need. Rebuilt CMS from legacy system with enhancements and partner-side management.

Laravel · PHP · CMS

Sagotkita.co
Community Initiative   Jul 2021 – Jan 2023

Nonprofit movement for the Philippines, a platform to help people in need. Replication of the Kitajaga CMS adapted for the Philippines market.

FYP: Agile Calculator
Personal / Academic   Jan 2020

A calculator that computes project cost based on algorithms and story point estimation to determine project costing.

PHP · Laravel

Laravel · PHP · CMS

Speech Preprocessing Tool: Driver Behaviour States Recognition

UiTM (FYP) Feb 2015 – Dec 2015

Speech analysis for driver behaviour states using MATLAB. Pre-processing tool for filtering sound using Spectral Subtraction, Zero Crossing Rate, Short Term Energy, and Hard Code algorithms. Published as a research paper.

MATLAB · Signal Processing

Simple Expert System: Vacation and Insurance Advisor

UiTM Jun 2015

Expert system built using C++ and Prolog at UiTM.

C++ · Prolog

Responsive Hybrid Mobile for Retail Goods Price Viewer

UiTM May 2014

Simple hybrid mobile app built using jQuery Mobile for a class project.

jQuery Mobile · HTML · CSS

Retail Management System + Mobile Barcode Scanner

UiTM Apr 2014

Web-based retail management system with a mobile barcode scanner Android app integrated via JavaScript to send barcode data from mobile to web.

PHP · Bootstrap · Android · JavaScript