

Sia De Long

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SUMMARY

Senior Full Stack Engineer (4 years) specializing in scalable enterprise systems using React, Spring Boot, and AWS. Built and supported production platforms serving **100K+ daily requests and multi-country business operations**. Experienced in microservices and event-driven architectures, driving improvements in **deployment efficiency, system reliability, and production scalability** across enterprise workloads and high-traffic systems.

SKILLS

Frontend (main): React, Next.js, React Native, Typescript

Backend (Main): Java, Spring Boot, Node.js, REST APIs, Microservices

Database: MySQL, PostgreSQL, MSSQL, DB2, Redis

Cloud & DevOps: AWS (Server & Serverless), Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions)

Other Exposure: Angular, Vue, Python, R, C# .NET

EXPERIENCE

Senior Full Stack Engineer

OpenMove AI Bhd

October 2024 - Present, Selangor

- Architected and delivered enterprise platforms (CommissionSuite) using latest framework from scratch, supporting **multi-country operations (MY/TH) with 4+ top Thailand insurer business client and scalable commission workflows processing 300K+ monthly transactions**.
- Designed system architecture on AWS (ECS/EKS, Lambda, RDS, CloudWatch, CI/CD), implemented and deployed end-to-end solutions.
- Introduced **event-driven architecture** using **RabbitMQ** and **AWS SQS** to decouple core services and engine processing, improving system responsiveness, scalability, and fault tolerance under high transaction loads.
- Led a **team of 4+ engineers**, enabling Thailand market expansion and supporting **regional franchise operations and cross-border business workflows**.
- Introduced Docker-based containerization and standardized development environments across teams, reducing onboarding time from **~1-2 weeks to a few days (~50-70% improvement)** and eliminating environment-related deployment issues.
- Improved system reliability and observability using AWS CloudWatch logging, structured monitoring, and error tracking, reducing production incidents by **~30-50% and improving MTTR significantly**.
- Mentored and guided a **team of 30+ engineers** through structured knowledge-sharing sessions covering React, Spring Boot, AWS architecture, and deployment best practices, improving team delivery consistency and onboarding speed.
- Built multiple **end-to-end PoCs**, contributed to **company website revamp**, participated in **AI OCR & Comprehend** project.

Software Engineer

Plaza Premium Group

April 2023 - October 2024, Kuala Lumpur

- Maintained and enhanced backend **microservices** using Java Spring Boot, supporting scalable enterprise system architecture handling **~100K+ daily requests across multiple services and over 100K+ users**.
- Maintained and enhanced an existing loyalty points system with wallet and ledger architecture, supporting secure point tracking, redemption, and auditability. Integrated with an e-commerce platform enabling **point exchange and hybrid payment (cash + points)**.
- Deployed and managed AWS cloud infrastructure using CI/CD pipelines (Jenkins) and AWS CLI, reducing **deployment time by ~40-60%** and improving release consistency.
- Maintained production systems and resolved critical incidents, achieving **~30-50% reduction in recurring production issues** through root cause fixes and monitoring improvements.
- Resolved a high-impact production issue in the Smart Traveller React Native app affecting **thousands of users**, restoring service stability.
- Led migration of Smart Traveller Admin Portal from Angular 5 to Angular LTS, improving **load performance by ~30-50%** and enhancing long-term maintainability.
- Developed feature enhancements for a PWA-based POS system used in retail operations across multiple stores, improving **transaction processing efficiency and user workflow speed by ~20-35%**.
- Built a serverless AWS API integration portal for internal and external developers, reducing **API onboarding time from days to hours** and improving integration adoption rate.
- Implemented a Redis-based queue processing system on AWS EC2, improving **background job throughput by ~2-3x** and reducing **processing latency under peak load**.

IT Intern

Matrixstudios

April 2022 - September 2022, Kuala Lumpur

- Developed a Next.js landing page for marketing campaigns, improving page load performance and increasing conversion tracking visibility for campaign analytics (-20–40% improvement in engagement metrics depending on campaign).
- Implemented Zapier + Odoo automation for social media workflows, reducing manual posting and operational effort by ~50–70% and improving workflow consistency across marketing channels.
- Supported onboarding and mentoring of junior interns, improving onboarding speed from ~2 weeks to ~3–5 days and increasing task delivery efficiency through structured guidance and code reviews.

PERSONAL PROJECT

新ブル Group - Product Landing Platform

- Designed and deployed the official landing website product showcase.
- Implemented responsive UI, SEO-friendly structure for product discovery.

新ブル Booth - iOS POS System for Booth Businesses

- Developed a mobile POS system with product management, order tracking, and booth-friendly sales interface optimized for fast transactions.
- Designed a premium subscription model unlocking advanced features and analytics for vendors.

Ameiro 雨いろ - Weather Web Application

- Built a weather monitoring web application that fetches real-time worldwide weather data from external APIs.
- Implemented API integration and asynchronous data handling.

Kiro Note 記録ノート - Todo Management Web App

- Developed a productivity web application for managing personal tasks and priorities.
- Implemented task creation, status tracking, and interactive UI components.

EDUCATION

Bachelor of Computer Science (Hons)

De Montfort University • Leicester, England • 2023 • 3.42

Bachelor of Computer Science (Hons) in Artificial Intelligence

Asia Pacific University of Technology & Innovation • Kuala Lumpur • 2023 • 3.51

- Built a Song Recognition AI web app using Flask and MySQL with real-time audio identification and interactive UI. Trained ML model from scratch in Python (Jupyter Notebook), including audio data collection, feature extraction, and model training pipeline for recognition tasks.

GCE A-Level IT

Minor in Accounting • Desa Mahkota Sixth Form College • Kuala Lumpur, Malaysia • 2019 • 3.67

CERTIFICATIONS

OWASP Top 10 & Secure Coding Practices

LGMS Berhad • 2025

- Strengthened expertise in identifying and mitigating common web application vulnerabilities, secure coding standards, and application security best practices.

MUET Band 4

Desa Mahkota Sixth Form College • 2019

- Recognized proficiency in English communication and academic writing.

PUBLICATIONS

Modified Artificial Bee Colony for N-Queens Problem

Journal • Asia Pacific University of Technology & Innovation Journal (JATI) • 2026

- Proposed an optimized variant of the Artificial Bee Colony (ABC) algorithm to solve the N-Queens constraint optimization problem using AI.
- Improved solution efficiency and convergence behavior compared to baseline heuristic approaches.
- Conducted experimental analysis to evaluate performance across different board sizes.

INVOLVEMENT

Attendee

AWS Workshop – Building Cost-Aware SaaS Architectures (Multi-Tenant Visibility & Optimization) – Amazon Web Services • January 2026 – January 2026

- Exposure to designing cost-aware SaaS architectures on AWS with multi-tenant considerations.
- Learned strategies for improving cost visibility across services and workloads.
- Hands-on understanding of AWS cost optimization techniques and best practices.
- Experience with architectural patterns for scalable and efficient multi-tenant SaaS systems.

Attendee

AWS Workshop – Kiro CLI & IDE – Amazon Web Services • January 2026 – January 2026

- Exposure to modern cloud development tools and workflow optimization.
 - Involved to agentic AI workflows for task automation and development assistance.
 - Experience using AI agents to support coding, debugging, and engineering productivity.
 - Familiarity with MCP server integration for tool and context orchestration.
 - Applied steering document-driven development practices to improve workflow clarity and execution consistency.
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