

Kenny Goh

Senior Software Engineer, Distributed Systems & Cloud

goh.kar.hong@gmail.com

0415 824 628

SUMMARY

Senior Software Engineer with 18+ years building large-scale distributed systems, trust & safety infrastructure, and event-driven platforms at scale. Specialises in high-availability architecture, microservices, and turning self-driven ideas into tools adopted across teams, from real-time anomaly detection to platform-wide access control. Track record includes a 98% reduction in system downtime, bot-mitigation systems protecting 100M+ users, and greenfield config/migration platforms built on GraphQL and event-driven pipelines.

SYSTEMS & CLOUD

Distributed Systems
Microservices Architecture
Event-Driven Systems
GraphQL
AWS · Kubernetes · Docker

LANGUAGES & BACKEND

Python · Java · Rust
TypeScript / JavaScript
Node.js · Full-stack

MACHINE LEARNING

TensorFlow · Keras
LLMs
Real-time Anomaly Detection
AI-Assisted Engineering (Claude,
Context Engineering)

EXPERIENCE

Senior Software Engineer · Kasada

Aug 2022 – Present

- Operate and evolve platform infrastructure serving dozens of enterprise tenants with combined live traffic of **1B+ requests/day (~15K req/sec)**, protecting **100M+ users** via bot-mitigation and abuse-detection strategies.
- Built a side-project anomaly detection dashboard, now **adopted across teams**, surfacing in real time when deployments, releases, or sec-ops changes hurt traffic or classification, evolving from a CNN/Keras prototype into a statistical outlier-detection engine paired with an LLM for triage.
- Shipped a fail-open mechanism that gracefully sheds load under overcapacity, **eliminating total-outage incidents** since launch and **cutting downtime by 98%**.
- Architected an event-driven, dual-write config migration (GraphQL, Postgres, DynamoDB) enabling **zero-downtime rollout** of server-side integrations, including a greenfield CLI for the v1 → v2 data model migration.
- Redesigned the platform's authorization model to enforce **least-privilege access** across the entire API surface, strengthening security posture for enterprise customers.
- Use AI-assisted engineering workflows (Claude, context engineering) daily across design, coding, and code review to accelerate delivery.

Senior Consultant Software Engineer · Lexicon Digital

Feb 2021 – Jul 2022

- Led end-to-end delivery of a travel insurance platform for IAG (React, Node.js, AWS), improving customer experience and securing the client's continued partnership.
- Migrated legacy systems to a microservices architecture (Docker, Kubernetes), improving maintainability and release velocity.
- Delivered a microservices-based pension renewal platform and optimized deployment infrastructure with Rancher, **increasing release velocity**.

Software Engineer · Reecetech

Aug 2019 – Feb 2021

- Migrated email automation workflows to AWS, **improving system reliability by 50%**.
- Implemented secure OAuth client authentication with XERO and prototyped a deep learning-based PDF parser.

Technical Consultant · Quintiq

Aug 2008 – Aug 2019

- Delivered supply chain optimization systems for enterprise clients, **cutting operational costs and boosting operational efficiency by up to 20%**.
- Optimized vehicle-routing algorithms for a logistics client, **reducing computation time by 50%**.

EDUCATION

Bachelor's Degree with Honours in Computing

Oxford Brookes University · 2002

Higher Diploma in Software Engineering

Asia Pacific Institute of Information Technology · 2001

CERTIFICATIONS

AWS Certified Solutions Architect – Associate

Amazon Web Services

AWS Certified Developer – Associate

Amazon Web Services

Deep Learning Specialization

DeepLearning.AI · Coursera