

RYAN LAU JUN HONG

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SUMMARY

Software Engineering student focused on backend and distributed systems, with hands-on experience building Go and Java services, event-driven pipelines, API integrations, CI/CD workflows, and containerized infrastructure.

EDUCATION

Asia Pacific University (APU)

BSc (Hons) in Software Engineering | CGPA: 3.84 / 4.0

Feb 2026 – Present

Diploma in ICT | CGPA: 3.56 / 4.0

Aug 2023 – Aug 2025

SKILLS & TECHNOLOGIES

Programming Languages: TypeScript, Go, Java

Frontend & Mobile: TanStack Start, React.js, React Native

Backend & APIs: Hono.js, Spring Boot, ConnectRPC

Infrastructure & Tools: Docker, Git, Turborepo, PostgreSQL, Redis, Keycloak, GitHub Actions

WORK EXPERIENCE

Software Engineer Internship

First Pavilion Technology Sdn Bhd

September 2025 – January 2026

- Contributed to a Go-based centralized exchange backend, implementing wallet workflows and tiered KYC/CDD screening logic for transaction and compliance operations.
- Designed a real-time synchronization pipeline using Redis Pub/Sub and Server-Sent Events, enabling frontend React Query cache invalidation without continuous polling.
- Integrated Keycloak-based OIDC authentication and identity management while introducing version-controlled PostgreSQL schema migrations with Atlas.
- Automated test, build, containerization, and deployment workflows with GitHub Actions and Docker for services hosted on a Contabo VPS.

PROJECT EXPERIENCE

APU-ASC | Full-Stack Automotive Service Platform

[Live Demo](#) | [GitHub Repo](#)

- Refactored an academic Java application into a Spring Boot Modulith architecture, using domain-driven boundaries to isolate business modules and reduce cross-module coupling.
- Established an API-first workflow with OpenAPI and Orval, generating type-safe API clients shared by React and React Native applications.
- Implemented local observability with Prometheus, Grafana, Loki, and Tempo through Docker Compose for metrics, logs, and distributed traces.

OpenChain | Blockchain Investigation Tool

[Live Demo](#) | [GitHub Repo](#)

- Built a blockchain investigation platform for wallet lookup, multi-hop fund-flow tracing, evidence-backed analysis, and deterministic risk indicators across public blockchain data.
- Architected a Go backend with ConnectRPC and Protobuf, implementing normalized chain adapters, provenance-aware evidence pipelines, and a YAML-driven risk engine with explicit rule IDs and severity thresholds.
- Validated API reliability with deterministic k6 smoke and load tests covering rate limiting, queue fairness, saturation handling, status polling, and controlled-provider execution paths.