

# Leong Yin Chan

Email | 0481 575 872 | LinkedIn | GitHub | Coursework

## Summary

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Software Engineer (Backend & Cloud) with a quantitative background and 1 year of experience. Focused on building resilient and data-driven solutions with Go on Google Cloud Platform. Recent work involved migrating services from Python to Go, and establishing CI/CD with GitHub Actions and Terraform.

## Experience

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### Software Engineer (Contract) | Union Mate

Feb 2025 – Jan 2026

- Migrated 5 microservices from Python to Go, to address high memory footprint and cold-start latency. Implemented bounded worker pools, dropping P99 latency by 60% (<300ms) and reducing serverless GiB-seconds by 40%.
- Modernised deployment security by replacing long-lived keys with OIDC federation.
- Implemented the ingestion pipeline for complex engineering documents (SaaS prototype), benchmarking chunking and embedding strategies to achieve >90% retrieval accuracy against a client-validated golden dataset.

## Projects

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### Geospatial Data Pipeline | Go, Terraform

- Automated the archival of stale Firestore data to GCS, reducing NoSQL read operations by 86% per request.
- Imported existing GCP resources into reusable Terraform modules to enable infrastructure-as-code and drift detection.
- Developed Go REST APIs with token-bucket rate limiting to guard resources.
- Implemented integration tests using Firestore Emulators.

### RAG-Based AI Agent & Portfolio | Go, TypeScript, Next.js

- Built a RAG-based LLM agent utilising vector embeddings for semantic search.
- Implemented a chat interface using Next.js and streaming response handlers to render LLM tokens immediately upon generation.

## Skills

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**Languages:** Go, Python

**Cloud & Infrastructure:** Cloud Run, Firestore (NoSQL), GCS, Vertex AI, Pub/Sub, IAM & Security Policies

**DevOps & Tools:** Terraform, Docker, GitHub Actions, Concurrency, RAG, Git

**Certifications:** Google Cloud Certified - Professional Cloud Developer

## Education

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### The Australian National University

Bachelor of Actuarial Studies

Graduated Jan 2025

Bachelor of Finance (Quantitative Finance)

Graduated Jan 2025

## Leadership & Professional Development

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### Senior Resident | The Australian National University

Jan 2023 – Dec 2023

- Supervised a cohort of 26 residents, enforcing safety protocols and mediating conflict resolution as a first-responder for critical incidents.

- Earned two scholarships (\$16,000 in 2023; \$4,000 in 2020) for contributions to collegiate life and academic excellence.

**Administrative Support Assistant | Singapore Armed Forces**

*Jul 2020 – May 2022*

- Managed scheduling and end-to-end logistics for officer training programs and service medal ceremonies, ensuring operational readiness and adherence to protocol.
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