

# Yung-En (Ian) Chi

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## Professional Summary

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Software engineer with experience building **internal operational systems**, **payment workflows**, and **App Store-published iOS products**. Worked across **high-trust financial operations**, **marketplace payments**, and **client-facing multi-role systems**, with hands-on ownership spanning frontend, backend, cloud deployment, and production-oriented system design.

## Technical Skills

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**Languages:** Python, Java, TypeScript, JavaScript, SQL, Swift

**Frontend / Mobile:** React, Next.js, Vite, SwiftUI, HTML/CSS, Tailwind CSS

**Backend:** FastAPI, Spring Boot, Node.js/Express, Flask, REST APIs, JWT, Stripe

**Data / Cloud / DevOps:** PostgreSQL, Firestore, GCP, Cloud Run, Cloudflare, AWS, Docker, GitHub Actions

## Education

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**University of Melbourne**

*Master of Software Engineering | WAM: 74.65*

Nov. 2026

*Melbourne, Australia*

**RMIT University**

*Bachelor of Computer Science*

Nov. 2023

*Melbourne, Australia*

## Experience

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**Vision Verse Interactive Pty Ltd**

*Full-Stack Developer Intern*

Nov. 2024 – Jun. 2025

*Sydney, Australia (Remote from Melbourne)*

- Delivered **subscription and payment workflow** functionality for **DineSeal**, a restaurant-focused digital product, covering checkout flow, payment integration, subscription status updates, and **paid-user account access** handling.
- Built payment-related frontend pages and backend transaction logic so **payment verification**, account status, and **user entitlement** stayed aligned after purchase events.
- Contributed to **production-facing payment feature delivery** through implementation, debugging, and workflow refinement in a real team setting.

## Selected Projects

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**Interesty — Internal Financial Operations System**

React/Vite, FastAPI, PostgreSQL, Cloudflare

- **Independently built** a contract-centered **internal financial operations system** that replaced a workflow previously held together by paper records, inconsistent Excel files, operator memory, and manual cross-checking.
- Reconstructed messy historical data into a usable system foundation and defined the core model for contracts, payouts, renewals, imports, review, and monthly reporting, turning a fragile manual process into a **formal operating workflow**.
- Designed **trust and recovery boundaries** through backup, restore, encrypted off-site snapshots, auditability, and controlled data handling so formal records could be operated more safely in a higher-risk financial context.
- Brought the system into **late parallel operation**, where it now handles **most day-to-day work** and has helped surface historical data inconsistencies and accounting errors during real use.

**MenuGenie — AI Menu Translator Product**

SwiftUI, FastAPI, Cloud Run, Firestore, GCS, Cloudflare

- After the initial course prototype stage, independently continued MenuGenie into an App Store-published iOS product with multi-page menu flows, history replay, and dish context.
- Rewrote and converged the backend into a more maintainable FastAPI + Cloud Run + Firestore + GCS architecture, replacing a more fragmented earlier setup and improving long-term operability.
- Improved production readiness through streaming-first delivery, targeted latency diagnosis, and cloud architecture decisions aimed at responsiveness, maintainability, and lower operating overhead.
- Reduced OCR processing time by 38% and lowered estimated monthly cost by about 96% (about 23x lower).

**OAS — Multi-Role Assessment Scheduling System**

Next.js / React, Spring Boot

- Served as **Product Owner** in a **client-facing 12-person** team project, driving requirement elicitation, backlog structure, acceptance criteria, sprint planning, and alignment around a multi-role oral assessment workflow.
- Led delivery of the system's scheduling workflow across course administrators, examiners, and students, keeping it deliverable under **changing requirements** through refactoring for backend integration, testing, and demo delivery.

**LearnPrompting.ca — Marketplace LMS Platform**

React, Java / Spring Boot, Stripe Connect

- Built key parts of a **marketplace-style payment workflow** for a remote client education platform, enabling **payout-ready** instructor onboarding, student purchase flow, and **payment-dependent course access**.
- Aligned frontend access behavior with backend payment status and webhook-driven updates so course permissions followed **confirmed transaction outcomes** rather than frontend success state alone.