

Yung-En (Ian) Chi

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Professional Summary

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

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

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

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

Interesty — Internal Financial Operations System

React/Vite, FastAPI, PostgreSQL, Cloudflare

- Independently built** a contract-centered **internal financial operations system** that replaced paper records, inconsistent Excel files, operator memory, and manual cross-checking, reducing overall operational time by **70%**.
- Reconstructed messy historical data into a usable system foundation and defined the core model for contracts, payouts, renewals, imports, review, and monthly reporting, improving data confidence from **60% to 90%**.
- 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**, improves core workflow efficiency by up to **45x**, and has surfaced 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.