

CAO QIN

Software Engineer | Java, Backend & Product Engineering

Singapore | Singapore Permanent Resident - no sponsorship required | +65 8369 3435 | cqbashuqin@gmail.com
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SUMMARY

Software engineer with more than two years of experience across Java backend services, AWS-based public-sector systems, and production mobile products. Independently launched an iOS product from idea through App Store release and early customer validation. Completed an NUS Master of Computing in Computer Science in June 2026.

TECHNICAL SKILLS

Languages: Java, Python, Swift, JavaScript/TypeScript

Backend & Data: Spring, MyBatis, REST APIs, Flask, Oracle, relational databases, batch processing

Cloud & Delivery: AWS, system integration, CI/CD, production debugging, cross-functional delivery

Mobile & Product: Android/Java, iOS, SwiftUI, UIKit, WidgetKit, subscriptions, analytics, App Store delivery

EXPERIENCE

NCS Group - Software Engineer | Singapore | Jul 2023-Jan 2025

- Built and maintained Java/Spring government e-services with reliability, security, and data-governance requirements, using MyBatis and Oracle and integrating systems through REST APIs and batch workflows on AWS.
- Standardized data-exchange and file-transfer interfaces across seven government systems, reducing integration friction and improving maintainability across agency boundaries.
- Worked with product owners and non-technical stakeholders to deliver user-facing services under regulatory constraints while balancing correctness and delivery timelines.

Notewise - Software Engineer | Singapore | Feb 2025-Jan 2026

- Delivered complex, interaction-heavy features in Android/Java for a production note-taking product, working across rendering, state, geometry, and native input behavior.
- Owned a synchronized magnified editing experience end to end, coordinating view transforms, drawing interactions, and responsive rendering across multiple views.
- Built direct in-canvas text editing and reusable interaction models, collaborating with design and product partners to turn nuanced requirements into maintainable production behavior.

INDEPENDENT PRODUCT

PourNote - Independent Product Engineer | Singapore | 2026-Present

- Independently took a local-first iOS drink journal from product definition through implementation, App Store release, monetization, analytics, localization, and iteration; reached approximately 150 monthly active users and the first paying customer by July 2026.
- Built the product with Swift and SwiftUI, including local persistence, calendar-based history, locally calculated insights, shareable cards, and home and lock-screen widgets.
- Integrated RevenueCat subscriptions, Firebase product analytics, and a Supabase Edge Function for feedback while keeping personal journal data on the user's device.

EARLIER EXPERIENCE

NCS Group - Software Engineer Intern | Singapore | Jan 2022-Jun 2022

- Developed Python and Flask backend services using OCR to validate documents and extract structured data, and built automation for data processing, testing, and operational workflows.

EDUCATION

National University of Singapore - Master of Computing, Computer Science | Jan 2024-Jun 2026

National University of Singapore - Bachelor of Computing (Honours), Computer Science | Aug 2019-Jun 2023

Focus: Artificial Intelligence, Networking, and Distributed Systems