

Siyu (Corey) Chen

Backend Engineer · Go · AI Agent Systems

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PROFILE

Backend engineer with two years of Go on a multi-tenant B2B platform (~20 microservices, ~100K end users). I build systems that stay correct when things go wrong (Kafka, Temporal, MySQL, Redis), and I build AI agents the same way: with contracts, budgets and an audit trail.

I work **AI-native**. Agents take part in every stage of my work, and I build the workflows myself: Claude Code skills, project contracts, scheduled agent tasks and MCP connectors. Outside work I run [coreytrading](#), a multi-agent research system where Claude and Codex act as reviewed domain agents over frozen, hashed evidence (~2,900 tests, humans place every order), and I write about AI, trading and engineering in four languages on [coreyverse.dev](#).

EDUCATION

Nanyang Technological University Aug 2022 - Jan 2024
M.Sc. Computer Control & Automation · Singapore

South China University of Technology Sep 2018 - Jul 2022
B.Eng. Mechatronics Engineering · Guangzhou

EXPERIENCE

GoCode Pte. Ltd. Mar 2024 - Jun 2026
Golang Full Stack Developer (backend-focused) · Singapore
Multi-tenant SaaS: accounts, wallets, loyalty and partner networks, ~20 Go services. [Service write-ups](#)

- Wrote **10 Kafka consumers across 5 services** for at-least-once delivery: manual ack, retry and dead-letter topics, idempotency keys enforced by unique indexes.
- Fixed an **out-of-memory failure** in a Kafka cascade over a 10-level partner network with keyset-paginated, throttled batches.
- Co-led the move from cron to Temporal**: per-tenant child workflows with retry policies and compensation.
- Batched per-user aggregations into **UNION ALL** queries across a **128-shard table** on a read replica; designed ~30 MySQL tables.
- Wrote the first versions of the identity and configuration services and most API-gateway middleware; designed the audit trail now used by **12 services**.
- Rebuilt an internal OpenProject-Slack tool in Go + Next.js with AI coding agents.

TikTok Pte. Ltd. Nov 2023 - Dec 2023
Backend Development Intern, Storage Infrastructure · Singapore

- Made a cross-region object-storage replication service runnable locally by swapping its internal dependencies for open-source equivalents via runtime function hooking; shipped it as a reusable Go library.

SKILLS

Languages	Go (primary), Python, SQL, TypeScript
Backend	Microservices, gRPC / Protobuf, REST, go-zero, Gin, Temporal
Data	MySQL, Redis, Kafka
AI & agents	AI-native workflows (Claude Code skills, AGENTS.md / CLAUDE.md, MCP), multi-agent orchestration, structured outputs, cross-model review
Operations	OpenTelemetry, Prometheus, pprof, Docker, GitLab CI, Kubernetes (working knowledge)
Spoken	English (professional), Mandarin (native)