

# Cheng Ting Chan

Software Engineer

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## Experience

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**CloudSafe**, Software Engineer

Dec 2024 – present  
1 year 2 months

- Owned project refactoring, identified DB bottleneck, **reducing core feature execution time by 98.5%**
- Independently owned new projects **end-to-end: requirements breakdown, system design, and implementation**
- Refactored legacy codebase with **Django Ninja + Django ORM**, significantly improving maintainability
- Introduced **Pytest** framework for unit and integration tests, reducing incidents
- Established **GitHub Actions** CI with **self-hosted runner** and **automated testing**, catching bugs early and reducing review overhead
- Introduced **Docker** containerization with deployment scripts, **significantly reducing dev setup time**
- Implemented **SDD, BDD, TDD** workflow, creating **Single Source of Truth** to reduce communication overhead
- Leveraged **AI-assisted development tools** (Claude Code, MCP), reducing core module development time by **70%+**
- Introduced **Clean Architecture** with **reference repo** to facilitate team adoption
- Cross-functional collaboration** with frontend engineers, system engineers, and QA

**WeHelp**, Trainee

Apr 2024 – Sept 2024  
6 months

- Completed **independently planned and developed** personal full-stack projects within 6 weeks, using **Python, JavaScript, MySQL, WebSocket, Redis, Kafka, Docker, and AWS**

## Projects

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**Ticketing System** [🔗](#)

- Designed and implemented an **event-driven ticketing system** achieving **5,116 RPS** under load testing
- Leveraged **Kafka partition ordering + idempotency design** to achieve consistency without distributed locks
- Implemented **async booking notification** via **SSE + Pub/Sub**: API returns 202 Accepted immediately, client receives real-time status updates
- Integrated **OpenTelemetry** with **Jaeger** and **AWS X-Ray** for distributed tracing
- Used **py-spy** to generate flame graphs, **identified and resolved CPU bottlenecks** in the hot path, reducing execution time by **72%**

## Certifications

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- AWS Certified Cloud Practitioner
- TOEIC 915 (Listening and Reading)

## Skills

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**Languages & Frameworks:** Python, Django, FastAPI, Django ORM

**Databases & Messaging:** PostgreSQL, MySQL, Redis, Kafka

**DevOps:** Git, GitHub Actions, Linux, VMware, Nginx, Docker

**Testing & Observability:** Pytest, pytest-bdd, Gherkin, k6, OpenTelemetry, Jaeger, py-spy

**AWS:** EC2, ECS, ALB, RDS, S3, Route53, X-Ray