

CHUA SIOK CHENG

AI Engineer | Agentic Systems, Enterprise RAG and LLM Evaluation

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AI engineer developing multi-agent assistants, enterprise RAG applications and LLM evaluation tooling in Go, Python and TypeScript. Builds business-system integrations with privacy controls, evidence verification and trace-based debugging. Earlier work spans OT anomaly detection and cloud-based GenAI workflows.

Professional Experience

AI Product Manager Trainee | OlaParty / Qoretex | Jun 2026 - Present

EHR AI Tools

- Launched a bilingual HR AI assistant in six weeks as the sole engineer, from requirements through testing and rollout; built the Python/FastAPI backend and TypeScript/Next.js operations console, and deployed the stack with Docker.
- Implemented agentic RAG that decomposes questions, retrieves and cites policy evidence, and verifies generated statements; combined verified HRIS data with deterministic leave-eligibility and service-period tools for employee-specific answers.
- Implemented PII detection, reversible tokenization and request-scoped unmasking, with minimized employee context and audit logs for HRIS, retrieval and messaging integrations.

Anchor Assistant and Maibao

- Developed a livestream creator assistant with intent routing across six specialist agents; implemented Go services for streaming and non-streaming responses with session and attachment context.
- Built prompt A/B experiments and multi-model judging workflows using structured test datasets and scoring dimensions, with separate measurements for generation and evaluation latency.

Onyx and AXEL

- Built local observability dashboards for a Slack-based AI assistant, correlating backend logs, upstream API calls, saved conversations and delivery evidence through exact request and trace identifiers.
- Developed controlled Onyx evaluations using frozen questions and applicability context, retaining citations and audit records; applied an intent-aware rubric separating answer correctness, evidence support and successful delivery.
- Implemented append-first audit logging and durable Google Sheets outboxes with targeted replay and exact readback verification, recovering failed transfers without repeating model calls.

Professional Experience

AI Engineer | Lifegame | Dec 2025 - Feb 2026

- Built AI localization, dubbing, avatar-advertising and script-generation workflows for short-form video; refined prompts for translation consistency and to reduce manual editing.
- Set up Google Cloud infrastructure and multi-step Cloud Workflows pipelines; managed releases and version control in GitLab.

Machine Learning Engineer | First Watch OT Cybersecurity | Jun 2025 - Dec 2025

- Built an end-to-end OT network anomaly-detection pipeline covering traffic volume, protocol behavior and communication patterns.
- Transformed OpenSearch telemetry into time-series datasets with preprocessing and feature engineering; integrated LLM-generated anomaly summaries and Streamlit investigation dashboards.

Data Analyst Intern | Yanmar Singapore | Sep 2024 - Mar 2025

- Independently prepared business datasets and compared LSTM, Prophet, XGBoost and ARIMA forecasts for product sales and service demand, from data preparation through evaluation and presentation.

Technical Skills

Languages and frameworks: Go, Python, TypeScript, SQL, FastAPI, Pydantic, React, Next.js

AI engineering: Agent orchestration, RAG, tool calling, embeddings, hybrid retrieval, LLM evaluation, prompt experimentation, Dify, Onyx

Integration and delivery: REST APIs, SSE, webhooks, OAuth 2.0, Docker, Google Cloud Run, Cloud Build, Cloud Workflows, Git, CI/CD, pytest

Privacy and observability: PII tokenization, data minimization, source provenance, citation verification, trace correlation

Data and ML: OpenSearch, Pandas, NumPy, scikit-learn, XGBoost, PyTorch, TensorFlow, forecasting, anomaly detection

Education

DigiPen Institute of Technology Singapore | Graduated Apr 2025

B.Sc. Computer Science in Real-Time Interactive Simulation, Minor in Mathematics

Singapore Polytechnic | Diploma in Marine Engineering | 2016 - 2018