

# CHUA SIOK CHENG

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## AI / MACHINE LEARNING ENGINEERS

Available from April 2026

### SUMMARY

AI / Machine Learning Engineer with hands-on experience building production ML and GenAI systems across OT cybersecurity, localization, dubbing, and AI content automation. Strong in end-to-end delivery across data pipelines, feature engineering, model evaluation, LLM integration, Google Cloud setup, deployment, CI/CD, and workflow orchestration. Built anomaly detection pipelines, analyst-assist dashboards, localization and dubbing workflows for short-form film/video content, and AI-assisted script and avatar ad generation. Currently building AI projects in automated video generation, self-hosted AI tooling, and cloud-based workflow deployment.

### CORE SKILLS

**AI / ML:** Time-series forecasting, anomaly detection, feature engineering, model evaluation, NLP, LLM integration, prompt design, workflow automation, AI automation and AI content creation

**Cloud / DevOps:** Google Cloud Platform (GCP), Google Cloud Workflows, Cloud Run, Cloud Build, Artifact Registry, Google Cloud Storage (GCS), Docker, GitLab, GitHub, CI/CD, Linux, SSH

**Programming / Data:** Python, SQL, C, C++, Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, LSTM, Prophet, ARIMA, Streamlit, Plotly, OpenSearch

### PROFESSIONAL EXPERIENCE

#### Lifegame — AI Engineer

Dec 2025 – Feb 2026

- Built and improved AI-driven localization workflows for short-form film/video content, focusing on translation quality, consistency, and scalable prompt design.
- Set up Google Cloud infrastructure, deployment pipelines, and Google Cloud Workflows for AI content and localization processes.
- Improved video dubbing workflows through translation adaptation, script preparation, prompt refinement, and consistency checks.
- Contributed to avatar-based ad generation and AI-assisted script creation, including script generation from Google Play Store content for marketing use cases.
- Managed GitLab-based version control and deployment workflows; researched prompting strategies to improve localization, dubbing, and video consistency while reducing manual editing effort.

#### First Watch OT Cybersecurity — Machine Learning / AI Engineer

May 2025 – Dec 2025

- Architected and implemented an end-to-end ML pipeline for OT network anomaly detection across traffic volume, protocol behavior, and communication patterns.
- Automated ingestion and transformation of OpenSearch telemetry into structured time-series datasets for downstream analysis and reporting.
- Built preprocessing and feature-engineering workflows to improve anomaly signal quality across packet, byte, and protocol metrics.
- Developed Streamlit dashboards for anomaly investigation, trend analysis, and system-health visibility.
- Integrated LLM components to generate analyst-ready anomaly summaries and explanations; delivered production-ready solutions as the sole ML Engineer on the project.

#### Yanmar Singapore — Data Analyst Intern

Sep 2024 – Mar 2025

- Built time-series forecasting models to predict product sales and service demand across multiple product series.
- Cleaned, merged, and analyzed business datasets to extract KPIs and support decision-making; delivered an end-to-end analytics project independently.

### SELECTED PROJECTS

- Automated Video Generation (Ongoing): Building AI-assisted workflows for script generation, content assembly, and automated video creation.
- OpenClaw + AI Workflow Setup (Ongoing): Setting up self-hosted AI tooling and experimenting with cloud-based deployment and workflow automation.
- GenAI Localization / Dubbing / Avatar Ads: Built AI-assisted workflows for translation, dubbing, short-form film/video localization, and avatar-based ad generation.

### EDUCATION

**DigiPen Institute of Technology Singapore** — B.Sc. in Computer Science in Real-Time Interactive Simulation, Minor in Mathematics

**Singapore Polytechnic (Singapore Maritime Academy)** — Diploma in Marine Engineering