

Kannan Priyadharshan

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AI Engineering / Software Engineering Internships | Full-time: May–Dec 2027
Summer internship + credit-bearing Year 3 Semester 1 internship

EDUCATION

Nanyang Technological University

Bachelor of Computing in Computer Science (Honours)

- GPA: **4.26/5.00**. Coursework: Data Structures & Algorithms, OOP, Computer Architecture, Probability & Statistics.

Singapore

Aug 2025 – May 2029

EXPERIENCE

LLM Agent Developer Intern

Aug 2026 – Present

CyberSG R&D Programme Office (CRPO), NTU | ComplianceAgent

Singapore

- Built a **RAGAS evaluation harness** to assess compliance agents against **200+ test cases** spanning ISO 27001, SOC 2, IM8 and GDPR, on a CRPO-funded project with industry partner Cyber Sierra.

AI Engineer Intern

May 2026 – Aug 2026

Cyber Sierra

Singapore

- Built a codebase copilot used by two product managers to draft engineering tickets and identify implementation edge cases, combining repository navigation, on-demand code retrieval and reusable agent workflows.
- Reduced average session cost by **45%** from proof of concept to deployment using agentic RAG, prompt caching, parallel subagents and iteration limits.
- Developed a knowledge-base platform generating guides from engineering wikis with code citations, automated misleading-content checks and a guardrailed chat agent; reached internal testing.

Backend Engineer Intern

Dec 2025 – May 2026

eLife Inc

Singapore

- Built a prompt-tuning harness that raised the average **LLM-judge agreement score from 3/10 to 7/10** against ChatGPT web responses, supporting API-based probes in Temporal-orchestrated workers.
- Built asynchronous ingestion workers processing **10,000+ jobs daily** in production across YouTube, X and Reddit using AWS SQS and exponential-backoff retries; migrated six scrapers from TypeScript to Python with mypy.

Software Engineer Intern

Feb 2025 – Nov 2025

Netvirta

Singapore

- Automated catalogue ingestion and attribute tagging for **40+ brands and 100,000+ SKUs** using Python pipelines across regional storefronts.
- Cut size-chart processing from **4–5 hours to under 30 minutes** per brand with LLM extraction into Pydantic-validated JSON, automating 70–80% of the workflow with human review for exceptions.

RESEARCH

Undergraduate Researcher

Aug 2026 – Present

NTU URECA Undergraduate Research Programme | Advisor: Prof. Wang Chen

Singapore

- Built a Python research workflow with Planner, Experimenter and Reviewer agents, Docker-isolated experiments, immutable evidence, enforced budgets and Langfuse tracing.
- Completed three measured investigations and a six-episode paired study of evidence handoffs, with independent numerical-claim checks and nine reconciled traces; established a testbed for studying agent review reliability.

PROJECTS & OPEN SOURCE

LiteLLM – Merged Open-Source Contribution | *Python, pytest*

Jun 2026

- Fixed lost prompt-cache token accounting in the Anthropic Messages adapter by unifying usage conversion across streaming and non-streaming paths; added regression tests for cache fields and delayed streaming usage.

Shopee Live Producer | *LangChain, DeepAgents*

3rd / 40 teams | Sea × OpenAI 2026

- Owned multi-agent orchestration for a live-commerce assistant, routing buyer comments into four action classes and validating generated claims against database fact IDs before responding.

LEADERSHIP

NTU CCDS TOP'26 | *Head of Technology (Backend)*

Jan 2026 – Jun 2026

- Led seven backend engineers to deliver an orientation and live-games platform for **900 students**, owning frontend integration against a fixed launch deadline.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

AI & Agentic Systems: Large Language Models (LLM), AI Agents, Multi-Agent Orchestration, Agentic Workflow Design, LangChain, LangGraph, DeepAgents, Model Context Protocol (MCP), Tool/Function Calling, Retrieval-Augmented Generation (RAG), Agentic RAG, Prompt Engineering, Prompt Caching, Guardrails

Evaluation & Observability: RAGAS, LLM-as-a-Judge, Langfuse, Regression Testing, Structured Outputs

Backend & Data: FastAPI, REST APIs, PostgreSQL, pgvector, Redis, Temporal, AWS SQS, Pydantic, pytest, Asynchronous Programming

Infrastructure & Tools: AWS, Docker, Kubernetes, Terraform, CI/CD, Git, Open-Source Contribution

Enterprise & Delivery: Enterprise Compliance (ISO 27001, SOC 2, GDPR), Technical Enablement & Documentation, Cross-Functional Stakeholder Collaboration