Lau Chong Kai (Joshua)

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Github Link
New Taipei City, Taiwan

Education

National Taiwan University
Master of Science in Computer Science & Information Engineering — *Feb 2026 – Dec 2027 (expected)*

- **GPA**: 4.15/4.3

National Taiwan University
Bachelor of Science in Physics — *Sep 2021 – Dec 2025*

- **GPA**: 3.98/4.3 (171 credits), **CS Related GPA**: 4.10/4.3 (57 credits)
- Received the **Dean's List Award** (top 5% in the department)
- Completed Quantum Computation and Quantum Information Program

Publication

K.-H. Chou, Y.-A. Wang, **C. K. Lau**, M. Sharif, and H.-C. Hsiao. *Bot Among Us: Exploring User Awareness and Privacy Concerns About Chatbots in Group Chats.* In *Proceedings on Privacy Enhancing Technologies (PETS)*, 2026.

Research Experience

Network Security Laboratory — NTU CSIE
Advisor: Prof. Hsu-Chun Hsiao — *Sep 2024 - Present*

- **Privacy Meter (Full-Stack Lead) [Ongoing]**: developing a chat-privacy research tool following the PETS study, with four React/Vite feedback features, a Fastify LLM backend, server-assigned study conditions, and interaction telemetry.

Work Experience

TrendAI (formerly Trend Micro) — Trend Vision One Sovereign & Private Cloud
QA Automation & Cloud Deployment Intern — *Jun 2026 – Present*

- **Test Automation & Customer Quality Reporting**: built a dashboard tracking daily API and end-to-end test results across 10 Kubernetes clusters and 4 releases, feeding customer-facing build quality reports for on-premises enterprise customers. Maintain the test repository and add regression tests; parallelized test execution in GitHub Actions.
- **Release Testing & Cross-Team Defect Management**: qualify release builds through end-to-end testing as a QA gate before customer delivery. Trace failures to root causes using API and Kubernetes logs and Grafana, coordinate with 30+ application teams to resolve issues, track fixes, and verify corrections.

Hsin Hsin Galaxy — Business Management Department
Data Engineering Intern — *Jul 2025 - May 2026*

- **E-commerce Batch Upload Automation System**: built a YAML-driven workflow from product data to upload-ready listings with 17 brand configurations and 9 platform targets. Designed and built a rules/schema preview UI so staff can run supported uploads without engineer involvement.
- **SAP Order Processing Automation**: built an n8n workflow for Levi's Momo sales-to-SAP processing: pulls daily orders from BigQuery, applies a promotion schema covering 4 discount types with cumulative and multi-tier variants, and runs unattended with Google Chat anomaly alerts.

Skills

Programming Languages: Python, SQL, C/C++, JavaScript, Java, Verilog, R, Assembly

Full-Stack & Data: React, FastAPI, PostgreSQL, MySQL, Redis, BigQuery, n8n

Cloud & CI/CD: AWS, Azure, GCP, Docker, Kubernetes, k9s, GitHub Actions, Nginx, Linux, Git

Testing & Observability: pytest, Playwright, Grafana, Loki, Prometheus, OpenTelemetry

AI Engineering: LLM integration, cost-aware AI workflows; Claude Code, OMP CLI

Projects

Asset Management System: led a 5-person team building a full-stack asset and repair-request platform (React / FastAPI / MySQL) that runs in production on AWS ECS. Owned the roadmap, system and API design, and core backend services, and built the CI/CD pipeline with security and quality gates enforced on every pull request. Instrumented metrics, logs, and traces with OpenTelemetry and Grafana Cloud.

Second-Hand Books Trading Platform: is a React, FastAPI, and PostgreSQL–based solution managing 30M+ records across 15+ tables. The main query performance was improved by 80% (from 20s to 4s) through the use of PostgreSQL's `pg_trgm` extension and trigram indexing for faster text search and pattern matching.

Teaching Experience

Cryptography and Network Security NTU CSIE
Teaching Assistant *Feb 2026 – Jun 2026*

Competitions

Golden Shield Cybersecurity Competition: Finalist [Ongoing]