

Jayson Kong Xiang Gen

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EDUCATION

Sunway University (dual award with Lancaster University, UK)

Selangor, Malaysia

Bachelor of Science (Honours) in Computer Science, First Class

Sep 2023 – Aug 2026

- **CGPA:** 3.81 / 4.00; Dean's List Award (5 Semesters); Jeffrey Cheah ACE Scholarship
- **Relevant Coursework:** Artificial Intelligence, Computational Intelligence, Digital Image Processing, Data Mining & Knowledge Discovery, Data Structures & Algorithms, Distributed Systems, Database Fundamentals.

WORK EXPERIENCE

Clickr (Malaysia)

Kuala Lumpur, Malaysia

Full Stack Web Developer Intern

Jan 2026 – Apr 2026

- Built front-end for [DBS Bank's Annual Report 2025](#) and [DBS Foundation](#) — scroll-aware sticky navigation, CSS animations and responsive layouts matched to Figma spec.
- Selected as the only technical intern in the KL office, working with developers in Singapore, Vietnam and Myanmar through rounds of client feedback, fixing each defect raised in the issue tracker and deployed to staging over FTP.
- Ran staging-versus-live QA for clients including DBS Bank, Teleflex and STTelemedia, catching layout, copy, component and broken-link defects against Figma before release.

Sharkeys

Selangor, Malaysia

Founder & Builder

Dec 2022 – Nov 2025

- Built and sold custom mechanical keyboards across 400+ transactions with a 5-star rating on Shopee, Carousell and Facebook Marketplace, handling consultations, overseas sourcing, inventory and marketing.

Talker Coffee & Chocolate

Selangor, Malaysia

Part-Time Barista

May 2025 – Nov 2025

- Worked every station from cashier to the head-barista bar, including espresso calibration and latte art, and received and logged incoming stock — as daily sales grew roughly two-thirds over the period.

ACADEMIC & TECHNICAL PROJECTS (INDIVIDUAL)

Sharkeys — AI Keyboard Configurator (FYP - Graded A+/ Outstanding Project)

Next.js, TypeScript, PostgreSQL/pgvector, LangGraph, OpenAI API

May 2026 - Aug 2026

- Designed a hybrid architecture where a deterministic rule engine, not the LLM, decides compatibility; a sweep of all 585,200 combinations showed it rejects 99.4% as invalid, with zero invented parts.
- Added pgvector search and a LangGraph pipeline to resolve vague sound requests keyword search missed.
- Wrote a 58-case test suite from 150+ keyboards I built and sold; a simple keyword baseline matched the LLM on all 30 intent cases, and the LLM's real gain was 4 cases, against 1 lost.

FilingLens — SEC Filings Research Assistant

Python, FastAPI, PostgreSQL/pgvector, BM25, OpenAI API, Docker

Sep 2026 – Oct 2026

- Built and deployed a RAG assistant over 18 SEC 10-Ks from 6 chipmakers, combining hybrid BM25 + dense retrieval with exact XBRL financial figures; answers cite sources and refuse when the filings don't say.
- Wrote a 30-question golden set and validated an LLM judge against my own labels (88% agreement), scoring confident wrong numbers as worse than refusals.
- Raised answer accuracy 0.55 → 0.77 (0.82 on a held-out set) and cut wrong answers from 7 to 2 of 30 across 15+ controlled experiments under a pre-set adoption rule; documented what failed.

AI-Powered Newsletter SaaS Platform

Next.js, Supabase, OpenAI API, Inngest, TailwindCSS, TypeScript

Oct 2025 - Nov 2025

- Built a SaaS app that writes personalised newsletters with the OpenAI API, running scheduling and email delivery as Inngest background jobs.

ADDITIONAL INFORMATION

- **Programming Languages:** Python, TypeScript, JavaScript, SQL, Java
- **AI & Data:** RAG, hybrid search, vector databases (pgvector), LLM evaluation, LangGraph, OpenAI API
- **Frameworks & Tools:** FastAPI, Next.js, React, PostgreSQL, Supabase, Docker, Git (GitHub, GitLab), Vercel, Linux
- **Certifications:** IBM RAG and Agentic AI, Google UX Design Professional Cert.
- **Languages:** English (Highly Proficient), Mandarin Chinese (Native); Malay (Proficient)
- **Hobby & Interests:** Swimming, Latte Art, Investment Research, Music, AI & Data.