

Kian Lok Chin

Third Year Computer Science Student

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SUMMARY

High-achieving Computer Science student with proven expertise in AI Engineering and Full-Stack Architecture. Experienced in designing production-grade RAG systems, multi-modal agents, and intelligent automation workflows that drive operational efficiency. Successfully deployed scalable AI solutions ranging from safety monitoring systems (Computer Vision/Flutter) to enterprise automation platforms (n8n/Next.js). Proficient in bridging the gap between state-of-the-art deep learning research (PyTorch/TensorFlow) and real-world deployment. Eager to leverage skills in Generative AI and cloud infrastructure to engineer robust, high-impact business solutions.

EDUCATION

Monash University Malaysia

Bachelor of Computer Science CGPA: 3.950 WAM: 89.063

Feb. 2024 – Present

Taylor's College

GCE A-LEVEL Grades: 4A* (96% average)

Aug. 2022 – Nov. 2023

Sekolah Menengah Sung Siew Sandakan

SPM (Sijil Pelajaran Malaysia) Grades: 10A+

Jan. 2017 – Apr. 2022

EXPERIENCES

AI Solutions Architect (Intern)

Nov. 2025 – Feb. 2026

Orangesoft Sdn. Bhd.

- Full-Stack Architecture: Built and deployed Zestix (Next.js, Nuxt.js) with WebSockets, Framer Motion, and a scalable dark-mode design system.
- AI & RAG Systems: Engineered a high-accuracy RAG pipeline using Supabase (pgvector) with a custom 3-tier context injection framework.
- Automation & Integrations: Developed 55+ workflows in n8n, integrating Apify, Firecrawl, and custom Puppeteer scripts to reduce costs.
- DevOps & Infrastructure: Managed Linux VPS production with Docker, Traefik, and Redis-based API rate limiting.
- Analytics & Optimization: Built a GEO audit tool and automated GA4/Search Console reporting for 220+ client sites.

IT Student Research

Nov. 2024 – Feb. 2025

Monash University Malaysia

- Developed a highly efficient AI model for early skin cancer detection, optimized for mobile and low-cost devices.
- Engineered a "transparent AI" that visually explains its decisions to doctors, building clinical trust and ensuring accuracy.
- Designed a smart, adaptive system that continuously learns and improves its performance using expert feedback.
- Managed the project end-to-end, leading the process from initial research to creating a practical, real-world application.

PROJECTS

CareerOS | Python, LangGraph, FastAPI, Multi-Agent Systems, Next.js

Jul. 2026 – Aug. 2026

- Built an agentic career trajectory platform with LangGraph state machines and Gemini AI, earning National Semifinalist at TalentBank.
- Designed multi-agent consensus workflows dividing resume parsing, industry competency alignment, and roadmap generation.
- Deployed low-latency streaming endpoints via FastAPI and server-sent events (SSE) for sub-second agentic responses.
- Evaluated multi-agent synthesis across 350+ career benchmarks, achieving 94% alignment with verified market competencies.

Zestix AI Automation Platform | Next.js, n8n, PostgreSQL, Vector Databases

Nov. 2025 – Feb. 2026

- Architected a unified AI portal using Next.js/Nuxt.js with real-time WebSocket monitoring and Framer Motion UI.
- Engineered a 3-tier RAG pipeline using Supabase (pg-vector) for high-precision, context-aware AI retrieval.
- Developed 15+ n8n workflows for SEO auditing and lead generation, utilizing Puppeteer to optimize operational costs.
- Integrated GA4 and Search Console APIs to automate hyper-personalized performance reporting for 220+ websites.
- Orchestrated VPS deployment via Docker and Traefik, implementing Redis-based rate limiting for system security.

Safe Vision | Python, PyTorch, TensorFlow, Generative AI, Flutter

Dec. 2025 – Feb. 2026

- Developed a real-time threat detection pipeline integrating pose estimation (YOLO) and audio event classification (521 classes via YAMNet).
- Designed a "SmartFuson" engine using Google Gemini to analyze multimodal data streams, significantly reducing false positive alerts.
- Built a cross-platform mobile interface in Flutter to visualize live threats on a 2D Digital Twin map with real-time Firestore synchronization.
- Executed the complete project lifecycle from AI model deployment to mobile application release, focusing on SDG 4 (Education Safety).

Brand Intelligence & Forecasting Platform | NLP, SBERT, FAISS, Time Series Modeling, Web Development

Aug. 2025 – Sept. 2025

- Built an end-to-end analytics system for a beauty brand using SBERT-based NLP to extract and embed YouTube metadata.
- Applied FAISS clustering and TF-IDF analysis to segment content by topic and sentiment.
- Developed an ensemble forecasting pipeline using Prophet, LSTM, and ARIMA to predict engagement trends.
- Performed SHAP-based model interpretability to provide transparent insights.
- Built a web interface integrating an LLM API for cross-validation, enabling competitive analysis and brand monitoring.

PeleeSENet | Python, TensorFlow, PyTorch, Neural Networks, CNN

Nov. 2024 – Feb. 2025

- Designed a hybrid CNN merging PeleeNet's dense connectivity with SE-Net's channel attention for robust feature extraction.
- Integrated a lightweight CBAM to apply sequential channel and spatial attention, focusing on key lesion characteristics.
- Achieved high efficiency (<3.5M parameters) using 1x1 bottleneck layers and transition blocks for model compression.
- Deployed Grad-CAM for model explainability and an adaptive learning loop for continuous performance improvement.

AWARDS/CERTIFICATIONS

National Semi-finalist

Talentabank Malaysia

- Selected as a national semifinalist for Career OS

Top 10 Finalists Monash Loreal Datathon

Monash University Malaysia x Loreal Malaysia

- Recognises top 10 teams for the best project for the datathon

IT Dean's Achievement Awards 2024

Monash University Malaysia

- Recognises top 10 students who have achieved a 90% average or higher across all units studied in a specific year.

Unit Award for MAT1841

Monash University Malaysia

- Achieved the highest mark for the unit MAT1841 in the year of 2024.

Top Achiever for A-Level

Taylor's College

- Awarded to students with at least all As for all subjects

JPA LSPM Scholarship

JPA (Jabatan Perkhidmatan Awam Malaysia)

- Awarded to students with at least 8A+ in SPM

SKILLS

Languages: Malay, English, Chinese, Cantonese

Programming Languages: Python, Java, Kotlin, R, SQL, Javascript, Dart

Tools: Git, GitHub, SQL, Pytorch, Matplotlib, PowerBI, n8n, firebase, Flutter

Soft Skills: Communication, Team Collaboration, Self-motivated Learner, Fast-paced adaptability, Strong self-discipline, Early task completion, Leadership