

Dylan Kong Yee Xuan

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SUMMARY

Motivated Computer Science student building a comprehensive, generalist technical foundation. Experienced in tackling diverse programming challenges, from bare-metal memory management in C to rapidly prototyping full-stack AI tools in Python. A quick learner and collaborative team player, eager to explore different domains of computer science and adapt to new tech stacks.

PROJECTS

MiniRT | [Github](#) Apr 2026 – Present

- Developed a custom 3D rendering program in C from scratch, simulating real-world physics—like light, shadows, and reflections—to transform basic text files into highly realistic digital images.
- Engineered custom performance upgrades to process millions of complex mathematical calculations simultaneously (multithreading), drastically reducing image rendering times and ensuring smooth software performance.

ProcureAI | [Github](#) July 2026

- Architected and delivered an AI-powered procurement system in just **one week** to eliminate hours of slow, repetitive manual coordination, fully automating the complex purchasing workflow from a single text request down to a finalized supplier recommendation.
- Engineered the full-stack solution using Python, FastAPI, LangGraph, Google Gemini API, React, and Supabase, building an **autonomous agent** that emails suppliers, reads PDF quotes, and mathematically ranks offers, all managed through a live-streaming chat UI that enforces strict human approval before generating final purchase orders.

Minishell | [Github](#) Nov 2025 – May 2026

- Developed a strong foundation in secure memory management and software architecture by building a custom command-line interface in C entirely from scratch.
- Collaborated closely with a coding partner to build the software, learning how to effectively divide complex tasks, manage project timelines, and merge our separate pieces of code into one seamless, working application.
- Mastered problem-solving by ensuring the shell correctly understands tricky user typing—like special symbols and quotes—while building safety nets so the program never crashes, even when a user suddenly cancels a running task.

WORK EXPERIENCE

Sales Assistant | Part-Time Nov 2024 – Jan 2025

PRECISION EYECARE OPTOMETRY Emart Riam, Miri, Sarawak

- Managed appointment scheduling, customer inquiries, and point-of-sale transactions for an average of **15** daily customers, while executing complete shop opening, closing, and cleaning routines.

3D Archviz Artist | Contract-Based 2023 – 2024

Lohas Creative Miri, Sarawak

- Delivered 3D visualizations for **4** renovation projects—including residential interiors and a commercial shophot—using Blender, actively learning on the job to improve material realism and lighting quality with each consecutive project.
- Optimized time management and rendering workflows on a per-project basis, learning to accelerate render output speed by **40%** while successfully managing client revision cycles to meet strict deadlines.

TECHNICAL SKILLS

Languages: Python, C/C++, Bash
Frameworks & Libraries: FastAPI, LangChain, LangGraph, Pydantic, React
Developer Tools: Git, Docker, Linux, Proxmox, UV
Build & Debugging: GCC/Clang, Makefile, Valgrind, GDB

EDUCATION

Core Programme, Competency in Computer Science 42 Kuala Lumpur	May 2025 - Present Subang Jaya, Selangor
International General Certificate of Secondary Education (IGCSE) Knewton Global School Miri	2024 Miri, Sarawak

ACHIEVEMENTS

K-Youth Development Programme x 42 Malaysia Programme Facilitator	May 2026
Facilitated 25 hybrid (on-site and online) participants by resolving technical and curriculum inquiries while overseeing seamless and fair peer-to-peer project evaluations.	
42 Malaysia x AmBank HackLab Hackathon Top 6 Finalist	July 2025
Engineered and pitched an optimized data governance tool to AmBank executives during a 48-hour fintech hackathon, securing a Top 6 finalist finish out of 23 elite 42 Malaysia teams.	

CERTIFICATIONS

K-Youth Development Programme x 42 Malaysia Certificate Of Completion	June - July 2026
Built an AI-powered web application during a 1-month upskilling programme—using Python to collect, clean, and display raw data insights on a live website—before applying these skills to develop a functional product in a 1-week hackathon.	