

Kong Xiang Gen

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Portfolio: [xianggen.vercel.app](#) | **LinkedIn:** [linkedin.com/in/xianggen](#) | **Availability:** 19 Jan 2026 – 17 Apr 2026

PERSONAL PROFILE

I believe great software is developed at the intersection of technical precision and creativity. I am passionate about turning abstract concepts into functional and intuitive solutions to solve real-world problems. Seeking a collaborative internship where I can contribute fresh perspectives, learn from experts, and grow as a developer.

EDUCATION

Sunway University, Bachelor of Science (Honours) in Computer Science **Aug 2023 – Expected Aug 2026**

- **CGPA:** 3.75 / 4.00
- **Relevant Coursework:** Software Engineering, Artificial Intelligence, Web & Database Fundamentals, Operating Systems, Entrepreneurial Mindset & Skills.
- **Awards:** Jeffrey Cheah Ace Scholarship Recipient; Dean's List Award for Academic Excellence (3 Semesters).

Sunway College, Foundation in Arts

Apr 2022 – Mar 2023

- **CGPA:** 3.63 / 4.00
- **Awards:** Special Merit Award Recipient.

WORK EXPERIENCE

Sharkeys (E-Commerce Startup), Founder

Dec 2022 – Nov 2025

- Founded and operated a niche e-commerce business specializing in custom keyboards and accessories.
- Implemented consultative sales techniques to provide personalized product recommendations, maintaining a flawless 5-star rating across 300+ transactions on Shopee, Carousell, and Facebook Marketplace.
- Negotiated volume-based procurement contracts with international suppliers, optimizing inventory costs and increasing profit margins on custom builds.
- Managed end-to-end business operations including inventory resource management and digital marketing.

Talker Coffee & Chocolate, Part-Time Barista

May 2025 – Nov 2025

- Delivered high-efficiency customer service in a fast-paced environment, managing machine calibration and inventory logistics to ensure smooth daily operations.
- Demonstrated adaptability and time management by balancing shift responsibilities with academic commitments.

ACADEMIC & TECHNICAL PROJECTS

AI-Powered Newsletter SaaS Platform

Oct 2025 - Nov 2025

Next.js 15, Supabase, OpenAI, Inngest, TailwindCSS, TypeScript

- Engineered a scalable background job system using Inngest to manage complex asynchronous workflows, enabling automated email scheduling and real-time subscription management.
- Integrated OpenAI API to autonomously generate personalized newsletter content based on specific user preferences and historical data.

NutriMate: A Sustainable Meal Lifecycle Manager

Aug 2025 – Sep 2025

Scala, ScalaFX, MVC Architecture

- Architected a desktop application strictly adhering to MVC and OOP principles to decouple FXML user interfaces from backend logic.
- Developed a prioritization algorithm that cross-references inventory freshness data with recipe databases to minimize food waste.

AI Pathfinding Agent

Jun 2025 – Jul 2025

Python, A Algorithm, Heuristic Search*

- Developed an autonomous agent capable of managing complex state transitions on a dynamic hexagonal grid using A* Search algorithms.
- Optimized traversal efficiency by implementing custom BFS-based heuristics and penalty logic to navigate variable constraints such as gravity and traps.

ADDITIONAL INFORMATION

- **Languages & Frameworks:** Python, Java, JavaScript, SQL, React.js, Next.js, Tailwind CSS, Scala.
- **DevOps, AI & Tools:** Node.js, Supabase, Git/GitHub, Linux/Unix CLI, Vercel, Figma.
- **Certifications:** Meta Front-End Developer Professional Cert., Google UX Design Professional Cert.
- **Languages:** English (Highly Proficient), Mandarin Chinese (Highly Proficient), Malay (Proficient)
- **Interests:** Full Stack Development, AI & Machine Learning, UI/UX Design, Entrepreneurship.