Kong Xiang Gen

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

EDUCATION

Sunway University, Bachelor of Science (Honours) in Computer Science Aug 2023 – 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 Outstanding Academic Performance (3 Semesters).

Sunway College, Foundation in Arts Apr 2022 – Mar 2023
- **CGPA:** 3.63 / 4.00
- **Awards:** Special Merit Award Recipient.

WORK EXPERIENCE

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 full-time academic commitments.

Sharkeys (E-Commerce Startup), Founder Dec 2022 – Nov 2025
- Founded and operated a niche e-commerce business specializing in custom mechanical keyboards and accessories.
- Implemented "Know Your Customer" (KYC) strategies to provide personalized product recommendations, resulting in over 200 five-star reviews across 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, financial tracking, and digital marketing.

ACADEMIC & TECHNICAL PROJECTS

AI-Powered Newsletter SaaS Platform 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.
- Implemented secure user authentication and role-based access control using Supabase.

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.