

# Kong Xiang Gen

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

## EDUCATION

<b>Sunway University, Bachelor of Science (Honours) in Computer Science</b>	Aug 2023 – Aug 2026
<ul style="list-style-type: none"><li><b>CGPA:</b> 3.75 / 4.00</li><li><b>Relevant Coursework:</b> Software Engineering, Artificial Intelligence, Web &amp; Database Fundamentals, Operating Systems, Entrepreneurial Mindset &amp; Skills.</li><li><b>Awards:</b> Jeffrey Cheah Ace Scholarship Recipient; Dean's List Award for Outstanding Academic Performance (3 Semesters).</li></ul>	
<b>Sunway College, Foundation in Arts</b>	Apr 2022 – Mar 2023
<ul style="list-style-type: none"><li><b>CGPA:</b> 3.63 / 4.00</li><li><b>Awards:</b> Special Merit Award Recipient.</li></ul>	

## WORK EXPERIENCE

<b>Talker Coffee &amp; Chocolate, Part-Time Barista</b>	May 2025 – Present
<ul style="list-style-type: none"><li>Delivered high-efficiency customer service in a fast-paced environment, managing machine calibration and inventory logistics to ensure smooth daily operations.</li><li>Demonstrated adaptability and time management by balancing shift responsibilities with full-time academic commitments.</li></ul>	
<b>Sharkeys (E-Commerce Startup), Founder</b>	Dec 2022 – Present
<ul style="list-style-type: none"><li>Founded and operated a niche e-commerce business specializing in custom mechanical keyboards and accessories.</li><li>Implemented "Know Your Customer" (KYC) strategies to provide personalized product recommendations, resulting in over 200 five-star reviews across Shopee, Carousell, and Facebook Marketplace.</li><li>Negotiated volume-based procurement contracts with international suppliers, optimizing inventory costs and increasing profit margins on custom builds.</li><li>Managed end-to-end business operations including inventory resource management, financial tracking, and digital marketing.</li></ul>	

## ACADEMIC & TECHNICAL PROJECTS

<b>AI-Powered Newsletter SaaS Platform</b>	Sep 2025 – Oct 2025
<i>Next.js 15, Supabase, OpenAI, Inngest, TailwindCSS, TypeScript</i>	
<ul style="list-style-type: none"><li>Engineered a scalable background job system using Inngest to manage complex asynchronous workflows, enabling automated email scheduling and real-time subscription management.</li><li>Integrated OpenAI API to autonomously generate personalized newsletter content based on specific user preferences and historical data.</li><li>Implemented secure user authentication and role-based access control using Supabase.</li></ul>	
<b>Sustainable Meal Lifecycle Manager</b>	Aug 2025 – Sep 2025
<i>Scala, ScalaFX, MVC Architecture</i>	
<ul style="list-style-type: none"><li>Architected a desktop application strictly adhering to MVC and OOP principles to decouple FXML user interfaces from backend logic.</li><li>Developed a prioritization algorithm that cross-references inventory freshness data with recipe databases to minimize food waste.</li></ul>	
<b>AI Pathfinding Agent</b>	Jun 2025 – Jul 2025
<i>Python, A* Algorithm, Heuristic Search</i>	
<ul style="list-style-type: none"><li>Developed an autonomous agent capable of managing complex state transitions on a dynamic hexagonal grid using A* Search algorithms.</li><li>Optimized traversal efficiency by implementing custom BFS-based heuristics and penalty logic to navigate variable constraints such as gravity and traps.</li></ul>	

## ADDITIONAL INFORMATION

- Languages & Frameworks:** Python, Java, JavaScript (ES6+), TypeScript, SQL, React.js, Next.js 15, Tailwind CSS, Scala.
- DevOps, AI & Tools:** Node.js, Supabase (PostgreSQL), OpenAI API, 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.