KONG XIANG GEN

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CAREER OBJECTIVE

Year 3 CS student seeking an internship to apply my Full Stack and AI/ML knowledge. I combine strong technical skills with an entrepreneurial mindset to build intelligent, scalable software. Eager to tackle real-world challenges and deliver meaningful results for your team.

EDUCATION

Bachelor of Science (Honours) in Computer Science **September 2023 - Present**
Sunway University, Selangor
- Major: Computer science
- Current CGPA: 3.75

(Expected to graduate in August 2026)

Foundation in Arts **April 2022 - March 2023**
Sunway College, Selangor
- CGPA: 3.63

PROJECTS

AI-Powered Newsletter SaaS Platform **November 2025 - Present**
Next.js 15, Supabase, OpenAI, Inngest, TailwindCSS, TypeScript
- Featuring secure authentication and an OpenAI integration to automatically generate personalized newsletters based on user preferences.
- A scalable background job system to manage complex asynchronous workflows, enabling automated email scheduling, recurring delivery, and real-time subscription management.

Sustainable Meal Lifecycle Manager **August 2025**
Scala, ScalaFX
- Architected a desktop application using MVC and OOP principles, strictly decoupling the FXML interface from backend data logic.
- Engineered a prioritization algorithm that cross-references inventory freshness with recipes to automatically suggest meals and minimize waste.

AI Pathfinding Agent **June 2025 - July 2025**
Python, A Algorithm, Heuristic Search, Data Structures*
- Developed an autonomous agent using A* Search and immutable Python dataclasses to manage complex state transitions on a dynamic hexagonal grid.
- Implemented a custom BFS-based heuristic and smart penalty logic to optimize traversal efficiency while navigating variable constraints like gravity and traps.

WORK EXPERIENCE

Part-Time Barista **May 2025 - Present**
talker Coffee & Chocolate, Selangor
- Deliver efficient and friendly customer service in a fast-paced environment while preparing a variety of drinks, including latte art and specialty coffee.
- Manage opening and closing duties, including machine calibration, inventory checks, and maintaining cleanliness to ensure smooth daily operations.

Founder **December 2022 - Present**
Sharkeys, online-based
- Operate an online business selling custom mechanical keyboards and accessories, providing personalized recommendations using Know Your Customer (KYC) strategies.
- Achieved 200+ five-star reviews across Shopee, Carousell, and Facebook Marketplace.

SCHOLARSHIP

Recipient of Jeffrey Cheah Ace Scholarship   **September 2023 - Present**
Sunway University, Selangor

Recipient of Special Merit Award   **April 2022**
Sunway College, Selangor

ACHIEVEMENT

Recipient of Dean's List Award for Outstanding Academic Performance   **April 2025**
Sunway University, Selangor

Recipient of Dean's List Award for Outstanding Academic Performance   **February 2025**
Sunway University, Selangor

Recipient of Dean's List Award for Outstanding Academic Performance   **April 2024**
Sunway University, Selangor

CERTIFICATIONS

Meta Front-End Developer Professional Certificate   **October 2025 - Present**
(Expected completion: November 2025)

Google UX Design Professional Certificate   **April 2025 - June 2025**

COURSEWORK

- **Software Development & Architecture:** Architected scalable applications using object-oriented design principles. Skilled in bridging complex backend logic with modern frontend interfaces to deliver cohesive user experiences.
- **Artificial Intelligence & Data Analytics:** Developed intelligent agents and data-driven models for automated decision-making. Applied computational intelligence techniques, including evolutionary algorithms, neural networks, and logic-based systems, to solve complex optimization challenges.
- **Systems & Engineering:** Gained a systems-level understanding of computing performance through operating systems and network architecture. Managed the software development lifecycle using rigorous engineering methodologies and user-centered design principles.

LANGUAGE PROFICIENCY

- Highly proficient in Mandarin Chinese
- Highly proficient in English
- Proficient in Malay

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript (ES6+), Scala, SQL, HTML5, CSS3.
- **Frameworks & Libraries:** React.js, Tailwind CSS, Node.js, ScalaFX, JavaFX, Pandas, NumPy, Scikit-learn.
- **Developer Tools:** Git, GitHub, VS Code, IntelliJ, Figma, Linux/Unix CLI, Oracle APEX.

CORE COMPETENCIES

- Full-Stack Development
- Artificial Intelligence & Machine Learning
- MVC Architecture & OOP
- UI/UX Design & Prototyping
- E-commerce Management
- Customer Experience Strategy
- Inventory & Resource Management
- Financial Tracking & Sales Analysis
- High-Pressure Adaptability
- Time Management & Punctuality
- Problem-Solving & Critical Thinking
- Cross-Functional Collaboration