

# WONG KAI SHEN

Curriculum Vitae · Co-Founder & Lead AI Engineer · Agentic Systems Builder

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## PROFILE

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I am an undergraduate Computer Science student and the co-founder & lead AI engineer of **AIBC (AI Blockchain)**, where I architect autonomous agentic AI systems. My work centres on multi-agent orchestration, retrieval-augmented generation, knowledge-graph traversal, and the Model Context Protocol (MCP). I have shipped agentic products from the engine layer up — building **Medusa** (a reusable agent runtime) and the evolving **DAC** platform that productizes it for enterprise knowledge work.

In parallel, I lead student-led technology communities at Multimedia University: I directed **BarCamp Cyberjaya 2025** (250 attendees, MDEC partnership) and grew the IT Society's digital community by 69% as Head of Marketing. I am a **GitHub Campus Expert** and an active contributor to MMU's Hackerspace community. I am most interested in roles in agentic AI, applied LLM engineering, and full-stack AI product development.

## EDUCATION

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**B.Sc. Computer Science (Hons.), Software Engineering** · Multimedia University Nov 2024 – Nov 2027 (Expected)  
*Cyberjaya, Selangor, Malaysia*

- Specialization: **Software Engineering**. Active member of Hackerspace MMU and IT Society Cyberjaya leadership.

**Foundation in Information Technology** · Multimedia University

### Relevant Coursework (demonstrated through projects on GitHub)

Object-Oriented Programming, Data Structures & Algorithms, Software Engineering Principles, Database Systems, Web Application Development, Mobile Application Development, Cloud Computing, Computer Networks, Digital Logic & Circuit Design, Operating Systems, Artificial Intelligence fundamentals.

## PROFESSIONAL EXPERIENCE

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**Co-Founder & Lead AI Engineer** · AIBC (AI Blockchain) Nov 2025 – Present  
*Old Klang Road, Kuala Lumpur · Hybrid*

- Co-founded **AIBC**, a startup developing autonomous agentic AI systems for enterprise knowledge-work automation. Lead all technical architecture and product engineering decisions.
- Architected the **DAC platform** — an evolving agentic AI product line: **DCS** (smart RAG) → **DAC** (advanced agentic RAG with knowledge-graph traversal + vector similarity) → **DACv2** (fully autonomous multi-agent system, Medusa-powered).
- Designed and built **Medusa**, a reusable AI agent engine that powers any agent architecture. Features include an MCP gateway, a skills gateway, multi-provider LLM adapters (Anthropic, OpenAI, Google Gemini, Ollama), and an agent-to-agent (A2A) transport layer.
- Implemented multi-agent orchestration including a Planner agent, Governance Engine (with human-in-the-loop approval gates), Event Bus, Agent Registry, and Task Manager — separating task-level governance from a multi-tenant API gateway.
- Built the runtime in Node.js / TypeScript with an Express REST API and Server-Sent Events streaming for live agent updates; deployed a web dashboard for operator oversight.

- Drive product strategy: open-core dual-licensing direction (open-sourcing ingestion / KG construction, keeping governance & retrieval proprietary) and a partner-ecosystem model.

### Freelance AI Agent Developer · Self-Employed

Mar 2026 – Present

*Remote · Real Estate sector*

- Engaged by an external client (NDA) to design and ship a **fully autonomous AI sales agent** for the real-estate sector. Derived from my open conversational-agent framework ([github.com/wongkaishen/chatassistant](https://github.com/wongkaishen/chatassistant)).
- Architecture is channel-agnostic — the same codebase serves WhatsApp, web chat, and direct API access. Includes conversation memory, lead qualification flows, and tool-use over MCP for CRM / scheduling integration.

### GitHub Campus Expert · GitHub

Oct 2025 – Present

*Multimedia University · Remote*

- Selected for GitHub's competitive Campus Experts program — a global cohort of student technologists trained to lead local developer communities.
- Bridge the GitHub ecosystem and the MMU student community, with planned workshops, open-source onboarding sessions, and developer events.

### Director of BarCamp Cyberjaya 2025 · IT Society Cyberjaya

Mar 2025 – Nov 2025

*MMU Cyberjaya · On-site*

- Led end-to-end planning, coordination, and execution of MMU's flagship technology unconference, ensuring alignment with organizational vision and budget.
- Supervised a **40-person committee**, fostering accountability and collaboration across multiple sub-departments (programme, marketing, logistics, sponsorship, technical).
- Successfully delivered the event with **250 registered participants**, high engagement throughout, and zero major operational incidents on event day.
- Liaised with stakeholders, partners, and vendors — secured strategic participation from **MDEC (Malaysia Digital Economy Corporation)** along with industry speakers and external sponsors.

### Head of Marketing Department · IT Society Cyberjaya

Jan 2025 – Dec 2025

*MMU Cyberjaya · On-site*

- Directed strategic marketing for MMU's largest student-led IT community, overseeing the full lifecycle of event marketing from content creation to performance analytics.
- Drove campaigns for 6 major events: BarCamp Cyberjaya 2025, CodeNecton 2025, Tech Career Day 2025, Solidity Smart Contract Workshop, Sherpasec Cybersecurity Meetup (Malware Edition), and the Redsquare Tech Talk & Git/GitHub Workshop
- Grew Instagram following by **69%** (1.3k → 2.2k, +900 active community members) in one term via data-driven content (Reels, technical polls, giveaways).
- Negotiated cross-marketing partnerships with external clubs and university departments to break faculty silos and expand event reach beyond the IT faculty.
- Implemented an analytics-driven feedback loop using social-media insights to optimize future campaigns.

### Technical Committee — BarCamp 2024 · IT Society Cyberjaya

May 2024 – Oct 2024

*MMU Cyberjaya · On-site · Part-time*

- Maintained the BarCamp event website and successfully migrated it from a standalone WordPress installation into the IT Society's main web platform.
- Set up and tested PA / AV systems on event day, ensuring no technical interruptions during sessions.

### Member · Hackerspace MMU

May 2023 – Present

Cyberjaya, Selangor · Hybrid

- Active member of MMU's hacker / maker community; participate in technical workshops, hackathons, and peer learning.

**IT Technician** · Action PC House Sdn Bhd

Mar 2022 – Sep 2023

Puchong, Selangor · On-site · Part-time

- Diagnosed and repaired hardware issues on laptops, desktops, and component-level systems for retail customers.
- Performed Windows OS recovery, corruption fixes, and drive imaging across a wide range of consumer devices.
- Sales and technical consulting for PC components and pre-built systems; supported customer rig builds.

**Barista** · The Ice Cream Bar

Oct 2023 – Dec 2023

Puchong, Selangor · On-site · Part-time

- Short-term part-time role developing customer-service skills and high-volume fulfilment.

## SELECTED PROJECTS

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### DAC Platform & Medusa Engine — AIBC (Stealth)

The flagship product line at AIBC. **DAC** is an enterprise agentic platform that transforms unstructured documents into a queryable, relational knowledge base with autonomous action capability. The architecture is a four-layer Agentic Knowledge-Graph RAG combining knowledge-graph traversal with vector similarity, multi-agent orchestration (Orchestrator, Planner, Governance, A2A Transport, Event Bus, Agent Registry, Task Manager), and multi-provider LLM routing. **DACv2** integrates the Medusa engine for fully autonomous task execution. Stack: Node.js, TypeScript, Express, SSE streaming, MCP, Anthropic / OpenAI / Google / Ollama adapters, PostgreSQL with vector extensions.

### DCS — Data Collection & Storage

[data-collection-and-storage.vercel.app](https://data-collection-and-storage.vercel.app) · [github.com/wongkaishen/Data-collection-and-storage](https://github.com/wongkaishen/Data-collection-and-storage)

First milestone of the DAC platform line. A smart RAG system for ingesting, normalizing, and querying unstructured documents — the foundation that the autonomous DACv2 was later built on top of.

### Medusa — Reusable AI Agent Engine

[github.com/wongkaishen/Medusa](https://github.com/wongkaishen/Medusa)

Medusa is the agent runtime that powers DACv2 and any other agent architecture I or others want to build. It exposes an **MCP gateway** (for tool integration) and a **skills gateway** (for capability-routing). The first prototype task built on top of Medusa was the Unsubscribing Agent — used as a real-world test case for the engine's autonomy.

### ChatAssistant — Generalizable Conversational Agent

[github.com/wongkaishen/chatassistant](https://github.com/wongkaishen/chatassistant)

A channel-agnostic conversational agent framework. Same codebase powers both a WhatsApp chat assistant and the production real-estate sales agent that I deliver for my freelance client. Includes conversation memory, lead qualification flows, and tool-use over MCP.

### SmartEAS — AI-Driven Emergency Alert System

[github.com/wongkaishen/SmartEAS---Emergency-Alerts-System](https://github.com/wongkaishen/SmartEAS---Emergency-Alerts-System)

A real-time disaster alert and search & rescue platform. Monitors social media (Reddit, Twitter) for disaster reports, validates them against meteorological data (NOAA, USGS), and delivers heatmaps and optimized

evacuation routes via MCP-Google Maps integration. Stack: 9 AWS Lambda functions (Serverless Framework), Amazon Bedrock Nova Pro for analysis, DynamoDB, API Gateway, Next.js 15 + Material-UI, AWS Amplify hosting.

### AI Smart Keyboard Assistant

[github.com/wongkaishen/AI-Keyboard-Assistant](https://github.com/wongkaishen/AI-Keyboard-Assistant)

A custom Flutter keyboard that analyzes the live conversation and suggests intelligent, context-aware replies in real time. Features conversation memory and uses Google Gemini for response generation. Stack: Flutter, Android Studio, Google Gemini API.

### FoodPicker

[github.com/wongkaishen/Foodpicker](https://github.com/wongkaishen/Foodpicker)

Cross-platform meal-recommendation app for the indecisive. Suggests meals based on user preferences and location data. Stack: Django, PostgreSQL, Supabase, Google Maps API, OpenStreetMap, Nominatim.

## TECHNICAL SKILLS

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**AI / Agentic Systems** LangChain, Model Context Protocol (MCP), Retrieval-Augmented Generation, Knowledge-Graph RAG, multi-agent orchestration (Orchestrator / Planner / Governance), agent-to-agent (A2A) transport, Hugging Face, PyTorch, Amazon Bedrock (Nova Pro), Google Gemini, OpenAI, Anthropic Claude, Ollama, Jina AI

**Programming Languages** TypeScript, JavaScript, Python, Dart

**Frontend & Mobile** Next.js 15 (App Router), React, Three.js, Tailwind CSS, Material-UI, Framer Motion, Flutter, Android Studio

**Backend** Node.js, Express, FastAPI, Django, REST APIs, Server-Sent Events, WebSockets / Socket.io

**Cloud & DevOps** AWS (Lambda, Bedrock, DynamoDB, API Gateway, Amplify, SageMaker, S3, CloudWatch), Google Cloud, Vercel, Render, Heroku, Docker, Serverless Framework, GitHub Actions CI/CD

**Databases** PostgreSQL (with vector extensions for RAG), Supabase, MongoDB, DynamoDB

**Tools & Practices** Git, GitHub (CI/CD, Actions, Projects), WordPress, Figma, Agile / event-driven architecture, infrastructure-as-code

## HONORS, AWARDS & PROGRAMS

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- **GitHub Campus Expert** — Selected (Oct 2025) for GitHub's competitive student technologist leadership program.
- **Director, BarCamp Cyberjaya 2025** — Successfully delivered MMU's flagship tech event with 250 attendees and an MDEC partnership.
- **GitHub Achievements** — Pull Shark ×2, Pair Extraordinaire, YOLO.

## LEADERSHIP & ACTIVITIES

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- **IT Society Cyberjaya** — Director of BarCamp 2025, Head of Marketing 2025, Tech Committee BarCamp 2024, ongoing Member.
- **Hackerspace MMU** — Member since May 2023.
- **GitHub Campus Experts cohort** — Member of the global student technologist community.

## LANGUAGES

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**Mandarin Chinese** — Native

**English** — Fluent / Professional Working

**Bahasa Malaysia** — Conversational

**Japanese** — Conversational

## **INTERESTS**

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Agentic AI systems, the Model Context Protocol ecosystem, knowledge-graph engineering, developer tooling for LLM applications, and building open-source infrastructure for AI products. Outside engineering, I enjoy systems thinking, music, and community building.

## **REFERENCES**

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*Available upon request.*