

WINSTON KOH

AI Systems Builder & Trainer

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SUMMARY

I build agentic AI systems and teach teams to run them on real operational workflows. Creator of Project Athena, an open-source local-first agentic memory system (590+ GitHub stars, 77 forks). I deliver hands-on AI agent workshops for founders and teams, backed by three years developing certification curricula for Singapore's financial sector. SSG-recognised adult educator (WSQ ACTA). Finance grounding: passed CFA Level I; ChFC®/S and CLU®/S (conferred 2013).

SELECTED WORK & OPEN SOURCE

Project Athena — Open-Source Agentic PKM & Memory Layer (Python)
Creator & Lead Maintainer — github.com/winstonkoh87/Athena-Public

2025 – Present
590+ Stars · 77 Forks

- Built persistent memory architecture for LLM coding agents: hybrid retrieval (BM25 + pgvector + cross-encoder rerank, RRF fusion), Model Context Protocol (MCP) server, and path-triggered skill injection.
- Maintains Python SDK with 550+ automated CI tests, CodeQL static analysis, automated secret/privacy scanning, and PyPI trusted publishing.
- Public release reached #1 on r/GeminiAI and #4 on r/ChatGPT with 1M+ views and 5,300+ community shares.
- Engineered strict gold-set retrieval eval harness (Hit@5 0.569 / MRR@5 0.472) published transparently with reproducible benchmark runner.

EXPERIENCE

Independent — AI Systems & Training
AI Systems Builder & Corporate Workshop Trainer

2024 – Present
Singapore

- Design and deliver hands-on AI agent workshops: founders and engineering teams deploy Claude Code and agentic workflows directly on their operational processes (quoting, customer intake, automated reporting).
- Engineered a Gemini-based intake agent that executes structured multi-step business diagnostics and drafts confidential analyst briefs.

Independent Trader (Personal Capital) & Systems Developer
Quantitative Risk & Algorithmic Tooling

2016 – Present
Singapore

- Systematic FX/CFD trading on personal capital; developed custom Python tooling for trade journaling, position-risk limits, and automated drawdown controls.

Officer, Curriculum Development — Singapore College of Insurance (SCI)
Financial Certification Programmes (MAS-Regulated)

2012 – 2015
Singapore

- Developed curricula and course materials for professional financial-advisory certification programmes across MAS-regulated tracks (ChFC®/S, CLU®/S, and CFP® education tracks).
- Coordinated subject-matter experts, assessments, and e-learning delivery for advisory professionals.

Teaching Assistant, Investor Relations — Singapore Management University
Lee Kong Chian School of Business

2012
Singapore

EDUCATION & CREDENTIALS

- Bachelor of Business Management (High Merit)**, Singapore Management University (SMU) — Finance & Corporate Communication, 2011
- WSQ Advanced Certificate in Training and Assessment (ACTA)** — Institute for Adult Learning (IAL) Singapore, 2014
- Passed Level I of the CFA Program** — CFA Institute, 2015
- ChFC®/S, CLU®/S** — Singapore College of Insurance (conferred 2013)
- Completed FPAS Financial-Planning Education Modules 1–6 (CFP® track)** — FPAS, 2010

TECHNICAL & PEDAGOGICAL SKILLS

Agentic AI & LLMs: Claude Code & agentic IDEs (Antigravity, Cursor) · Model Context Protocol (MCP) · Hybrid RAG (BM25, pgvector, Cross-Encoder reranking) · Evaluation Harnesses

Engineering: Python · PostgreSQL & pgvector (Supabase) · SQL · Git & GitHub Actions · Astro · HTML / CSS / Modern JavaScript

Pedagogy & Domain: Adult Curriculum Development & Assessment (WSQ ACTA) · Financial Advisory Regulations · Quantitative Risk Management