# Shiyao Meng

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## WORK EXPERIENCE

**PKF-CAP LLP, SINGAPORE**                                                           Jun 2025 - Present
*Technology & Analytics Associate*

- Built a **self-service analytics platform** with **Role-Based Access Control** and n8n automated workflows to streamline operational processes (e.g. CaseWare access, charge code access, Quality Control forms); reduced end-to-end workflow lifecycles by **70%**.
- Integrated operational data sheets and upstream sources to **analytics dashboards** via n8n webhooks to achieve pseudo **real-time data updates and analytics** for partners' review and decision-making, **reducing data aggregation workloads by 80%**.

**AMMO AI, LONDON**                                                                   Jul 2024 - Jun 2025
*Software Engineer Intern, Remote*

- Led full-stack development for **Fakers Labs**, an experimental AI content lab, shipping features such as AI-generated podcasts that orchestrated **multi-step LLM pipelines** (outline → script → style transfer → TTS) on top of existing content, increasing user engagement by **30%**.
- Developed a **Twitter AI agent for context-aware responses and analytics dashboard** to run A/B tests on prompts and measure engagement (sentiment, click-through), enabling data-driven iteration on model prompts and content strategies, supporting **1.5k daily interactions**.

## PROJECTS

**CTO – CHIEF TALENT OFFICER; NOTEBOOKLM-INSPIRED AI JOB & RESUME PLATFORM**          Nov 2025

cto.shiyao.dev · github.com/eaziym/cto

- Built an **AI-powered career platform** that ingests a candidate's GitHub, LinkedIn, and project docs to produce a unified enriched profile, then uses **LLMs to generate async tailored resumes**, cover letters, and outreach messages per job description **within 30 seconds**.
- Implemented **RAG** over user-provided sources, so the **LLM grounds its responses** in actual documents and project history instead of a single compressed resume, **reducing hallucination by 20%**.
- Integrated Apify-based flows to search for HR / hiring-manager contacts and link them with **LLM-generated personalized outreach content**, closing the loop from job description → profile → contact, **reducing manual search workload by 30%**.
- Designed the system so it can be extended into a **conversational analytics interface** over a user's career data (e.g. "What are my top 3 projects relevant to this JD?").

**N8N HEADHUNTER WORKFLOW – LLM AGENT FOR CANDIDATE SEARCH**                          Oct 2025

*n8n, LangChain code node, Supabase, Google/Yahoo Search, Apify*

- Developed workflows that take natural language query → parse into structured filters → search and enrich profiles → top 20 candidates **in ave. 2min**.
- Deployed search-first approach using Google (via Serper) + LinkedIn dorking + Apify enrichment for **fresher, lower-cost data ($0.05 per profile)**
- Configured **LangChain**-based code node to **stabilise tool-calling**, ensuring the agent loops until the target number of candidates is found and avoiding random early termination, **improving accuracy by 20%.**
- Logged all agent actions (searches, validations, accepts/rejects) to Supabase and exposed them via webhook for live progress UI, solving the "why is nothing happening?" problem and **making the pipeline 90% auditable and explainable.**
- Connected to a people dataset **(200M+ entries)** for fast filter-based retrieval **(5–10 seconds per batch)**, while parallel Yahoo/Google search improves coverage for profiles not in the dataset; designed for future semantic search / RAG over stored profiles.

**SG JOBS AGGREGATOR – DATA INTEGRATION FOR SINGAPORE JOB LISTINGS**                  Oct 2025

github.com/eaziym/sg-jobs · sg-jobs

- Built 20+ n8n workflows to scrape Singapore companies' official career sites, normalise heterogeneous APIs/HTML, and **aggregate 4,000+ listings in about 20 minutes** (title, apply URL, metadata) into a unified dataset.
- Implemented an **end-to-end mini data platform**: information gathering → cleaning → DB insert → JSON and index.html generation → deployment to GitHub Pages, orchestrated as scheduled daily flows.

## EDUCATION

**NATIONAL UNIVERSITY OF SINGAPORE (NUS)**                                            Aug 2025 - Present
*Master of Computing in Artificial Intelligence*

- Cloud Computing (AWS, Azure, GCP, VPCs, K8s, **MapReduce-based distributed processing**).
- Focus on high-performance networking, probabilistic data structures, and **cloud platforms for scalable, low-latency, data-intensive systems.**

**NATIONAL UNIVERSITY OF SINGAPORE (NUS)**                                            Aug 2021 - Jun 2025

*Bachelor of Business Administration, Honours (Distinction) | Second Major in Data Science and Analytics*

## SKILLS

**Languages & Databases**

- Python, **Java** (OOP & data structures – NUS CS2040), C, JavaScript, TypeScript, SQL, MongoDB, PostgreSQL, SQLite

**LLMs, AI & Automation**

- **LangChain**, CrewAI, RAG, OpenAI, Dify, TTS, Whisper, OCR, n8n, Make.com, Supabase

**Data Platforms, Web & Services**

- React, Next.js, Node/Express, Flask, REST APIs, Selenium
- Experience building internal **analytics dashboards** and data-collection services over financial, audit, and job-market data

**Cloud & Infrastructure**

- Azure (AI Foundry, Document Intelligence, VMs, NSGs), AWS (EC2, VPC, S3), Digital Ocean, Docker, Traefik
- Familiarity with **distributed systems concepts** (MapReduce, cloud-native architectures) from NUS Cloud Computing coursework