

# Aiden (Chin Wei) Mak

Software Engineer — AI Quality & Evals · Agentic Systems · RAG

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## TECHNICAL SKILLS

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**AI & ML:** LLM Agents & Multi-Agent Systems, RAG, Model Context Protocol (MCP), LangGraph / LangChain, TTS/STT Evaluation, Prompt Engineering, LLM Evaluation

**Languages:** Python, TypeScript, JavaScript, Java, SQL, C/C++

**Frameworks & Full-Stack:** FastAPI, Next.js, React, Node.js, REST APIs, Streamlit

**Data & Vector DBs:** PostgreSQL / pgvector, ChromaDB, Pinecone, Redis, SQLite

**DevOps & Testing:** Docker, GCP Cloud Run, CI/CD, pytest, Playwright, Prometheus / Grafana / LangSmith

## EXPERIENCE

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### Zokforce – AI Engineering Intern (AI Consultancy)

Jan 2026 – Present

*Volunteer → Intern (since May 2026) · Toronto, ON*

- Built **clinsim**, a **Python** clinical-encounter audio simulator that converts de-identified clinical notes or case briefs into labeled multi-speaker audio for testing a medical-scribe **STT/ASR** pipeline
- Researched open clinical-note datasets including ACI-Bench and MTS-Dialog, and commercial **TTS engines** (Azure Speech, MiniMax, Google, ElevenLabs), drafting the testing flow for realistic Cantonese/English encounter audio
- Triaged and documented user-facing issues with senior engineers, reproducing bugs and verifying fixes to improve release reliability

### Independent AI Engineer – Self-Directed Projects

Jun 2025 – Present

*Toronto, ON · Remote*

- Owned end-to-end delivery of **4+ production AI/full-stack applications** spanning multi-agent workflows, **RAG**, MCP tool orchestration, cloud deployment, CI/CD, observability, and automated testing

### Canadian Museum for Human Rights – Applied AI Developer

Sep 2024 – Apr 2025

*University of Manitoba Partnership*

- Built an NLP-driven human-rights education app (Gemini LLM API) powering **6 learning modules**, gathering requirements from stakeholders in an Agile team
- Engineered a **RAG** pipeline over 25+ UN/OHCHR documents and cut response latency **~97% (6.8s → 0.2s)** via embedding and caching improvements

## PROJECTS

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### HR Intelligence Platform – Founding AI Engineer

[GitHub](#) | [Live Demo](#) | Jan–Feb 2026

*Python, LangGraph, MCP / FastMCP, ChromaDB (RAG), GCP Cloud Run, Prometheus / Grafana*

- Built a multi-agent HR automation platform with **8 LLM agents**, a **RAG** policy assistant, and a **28-tool MCP layer**
- Deployed on **GCP Cloud Run** with CI/CD and full observability via Prometheus, Grafana, and LangSmith
- Hardened the system with **1,909 unit, integration, and workflow tests** at **90%+ coverage** across 101 Python modules

### DecisionEase – Founding AI Engineer

[GitHub](#) | [Live Demo](#) | Apr–May 2026

*Next.js, React, TypeScript, FastAPI, Multi-Agent (A2A), pgvector*

- Architected a full-stack AI decision-support app — **Next.js/React** frontend and **FastAPI** backend — deployed live end-to-end
- Built a **6-agent system** with a **4-layer memory** model and agent-to-agent (A2A) coordination for next-best-action recommendations
- Integrated **10 MCP tools** across **27 REST routes** and delivered **1,600+ unit, integration, and E2E tests** with CI/CD

### ReviewLensAI – Creator / AI Engineer

[GitHub](#) | [Live Demo](#) | Mar 2026

*React, Supabase Edge Functions, Pinecone, OpenAI GPT-4o, RAG, promptfoo*

- Built a guardrailed review-intelligence platform with **4 ingestion modes** (CSV, paste, URL, image) and citation-grounded **RAG** over Pinecone
- Implemented **5 Supabase Edge Functions** and validated AI behavior with **168/173 Vitest tests** plus **6/6 promptfoo LLM evals**

### The Golden Fork – Founding Engineer

[GitHub](#) | [Live Demo](#) | Feb 2026

*Next.js, OpenAI, Pinecone, WebSocket, Stripe, Radix UI*

- Built a RAG-powered menu assistant with **OpenAI embeddings** and **Pinecone**, grounding recommendations in real menu items and structured add-to-cart suggestions
- Integrated **Stripe** webhooks and real-time **WebSocket** order updates across customer, kitchen, and manager surfaces

## EDUCATION

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### University of Manitoba

Winnipeg, MB

*Bachelor of Science, Honours Computer Science – GPA: 3.5*

*Sep 2020 – Jun 2025*

**Relevant Coursework:** Artificial Intelligence, Software Engineering, Databases, Data Structures & Algorithms, Machine Learning