

Yi Wang

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EDUCATION

B.A. Computer Science (GPA 3.93/4.0)	York University Toronto, ON	08/2024 – 05/2027
M.S. Statistics	Henan University of Economics and Law Zhengzhou, CN	09/2020 – 06/2022
B.Com. Economics	Zhengzhou University Zhengzhou, CN	09/2016 – 06/2020

EXPERIENCE

SRED Simplify Inc.	Toronto, ON
<i>Full Stack Developer</i>	<i>July 2025 – Feb. 2026</i>
<ul style="list-style-type: none">Built a SaaS platform for automated SR&ED compliance (Spring Boot + FastAPI) with a LangGraph agentic workflow on Azure, owning the end-to-end pipeline from multi-format ingestion to secure report generation and deliveryShipped a production RAG stack with hybrid retrieval (BM25 + vector) and Reciprocal Rank Fusion; added Cross-Encoder reranking to improve retrieval relevance by 35% in offline evaluations; implemented recursive chunking and Presidio-based PII redaction for safe document processingDesigned an identity and authorization layer with Spring Security + Google OAuth 2.0; implemented JWT rotation (15-min access, 7-day refresh) and RBAC enforcement for consistent sessions across servicesImplemented cloud CI/CD (GitHub Actions), secret management (Doppler), and feature flags (ConfigCat); reduced storage cost by 60% via Cloudflare R2 and enabled real-time AI quota management and safe logic rolloutsDelivered a React + TypeScript + TailwindCSS UI with Zustand and TanStack Query; improved UX with client-side caching, request de-duplication, and resilient loading/error statesAdded LangSmith-based cost monitoring and token optimization; built an async worker queue for background tasks, reducing infrastructure costs by 40% via smarter scheduling and resource utilization	

PROJECTS

AiDIY <i>Docusaurus, LangChain, Vercel, Azure, PostgreSQL</i>	docs.yiw.me
<ul style="list-style-type: none">Built a technical documentation platform with Docusaurus + TypeScript; added a LangChain service with a PostgreSQL vector store to enable semantic search and content recommendationsImplemented serverless APIs on Vercel with edge caching for low-latency global access; optimized bundle size via lazy loading and code splittingImproved authoring UX with live code editing, syntax highlighting (20+ languages), KaTeX math rendering, and Mermaid diagram support	

Menopause Helper

<i>Expo, React Native, iOS, Appwrite, Serverless</i>
<ul style="list-style-type: none">Developed an iOS app using Expo/React Native + TypeScript; implemented file-system routing (Expo Router) and client state management (Zustand) with EAS Build deploymentBuilt a serverless backend with Appwrite cloud functions and a simple event-driven architecture for scalable feature deliveryImplemented i18n via i18next (Chinese/English); integrated TanStack Query for caching and Axios for an HTTP client abstractionBuilt advanced theme system with light/dark mode support using React Native Paper; created responsive UI with Material Design components and custom theme persistence

OPEN SOURCE CONTRIBUTIONS

OpenClaw (180K+ stars) Personal AI Assistant	PR #2143
<ul style="list-style-type: none">Identified and resolved OAuth provider cooldown bug causing 1-hour service unresponsiveness; implemented intelligent failover in <code>model-fallback.ts</code> with auth profile cooldown checking, reducing user wait times from 1+ hours to immediate fallback	

TECHNICAL SKILLS

Languages: Java, Python, TypeScript/JavaScript, C, SQL, HTML/CSS

AI/ML: LangGraph, LangChain, RAG, Vector DB, LangSmith, Presidio

Backend: Spring Boot, FastAPI, Node.js, Express, MongoDB, Spring Security, OAuth 2.0, JWT, Redis

Frontend: Next.js, React, TanStack Query, Zustand, TailwindCSS

DevOps: Azure, Cloudflare R2, Docker, GitHub Actions, Doppler, ConfigCat, Vercel