

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

SREDSimplify Inc.

Toronto, ON

Full Stack Developer

July 2025 – Feb. 2026

- 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 delivery
- Shipped 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 processing
- Designed 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 services
- Implemented 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 rollouts
- Delivered a **React** + **TypeScript** + **TailwindCSS** UI with **Zustand** and **TanStack Query**; improved UX with client-side caching, request de-duplication, and resilient loading/error states
- Added **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

AI/IIY | *DocuSaurus, LangChain, Vercel, Azure, PostgreSQL*

docs.yiwan.me

- Built a technical documentation platform with **DocuSaurus** + **TypeScript**; added a **LangChain** service with a **PostgreSQL vector store** to enable semantic search and content recommendations
- Implemented **serverless APIs** on **Vercel** with **edge caching** for low-latency global access; optimized bundle size via lazy loading and code splitting
- Improved authoring UX with live code editing, syntax highlighting (20+ languages), KaTeX math rendering, and Mermaid diagram support

Menopause Helper | *Expo, React Native, iOS, Appwrite, Serverless*

- Developed an **iOS app** using **Expo/React Native** + **TypeScript**; implemented **file-system routing** (**Expo Router**) and client state management (**Zustand**) with **EAS Build** deployment
- Built a **serverless backend** with **Appwrite cloud functions** and a simple **event-driven architecture** for scalable feature delivery
- Implemented **i18n** via **i18next** (Chinese/English); integrated **TanStack Query** for caching and **Axios** for an HTTP client abstraction
- Built 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

- Identified and resolved **OAuth provider cooldown bug** causing 1-hour service unresponsiveness; implemented intelligent failover in `model-fallback.ts` 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