

ANSON WAN

+1 647-988-8689 | anson.hy.wan@gmail.com | github.com/ansonhywan | linkedin.com/in/ansonwan | ansonwan.com

PROFESSIONAL SUMMARY

- Software Engineer specializing in Agentic AI and Full-Stack development, currently architecting production-ready LLM agents and multi-agent workflows at IBM.
- Proven track record of delivering scalable solutions, solving technical problems, accelerating product release timelines through technical leadership and ownership of deliverables.
- Strong technical communicator and lifelong learner committed to continuous growth, with a history of bridging gaps between research and engineering teams to deliver cutting-edge AI features.

SKILLS SUMMARY

- **AI & Agents:** LangGraph, LangChain, RAG, Structured Outputs, JSON Schemas, LLM APIs, Vector DBs.
- **Languages:** Python, Golang, JavaScript/TypeScript, C++, SQL (PostgreSQL, MySQL).
- **Frameworks:** FastAPI, Express.js, React.js, Node.js, RESTful APIs, Microservices.
- **Tools:** Docker, Podman, CI/CD, Git, Jira, LangFlow, Linux, Selenium.

PROFESSIONAL EXPERIENCE

Software Engineer | IBM Cognos Analytics (Agentic AI Team) | Jan 2025 – Present

- Built production-grade Report Summarization and Report Sharing Agents using LangGraph, automating report data reasoning and report distribution tasks.
- Engineered multi-agent workflows utilizing Structured Outputs and Pydantic schemas to ensure reliable data integrity for downstream API consumption and front-end rendering.
- Improved the accuracy of generated data insights by implementing self-correction loops and human-in-the-loop nodes within the agentic graph architecture.

Software Engineer | PocketHealth (Platform Team) | Sept 2022 – Jan 2023

- Eliminated service downtime by implementing an asynchronous TLS certificate renewal system using asynchronous Golang routines.
- Standardized logging formats across core microservices to streamline production debugging and reduce the time required to resolve critical bugs.
- Developed a cross-microservice testing framework to ensure data integrity and consistent interactions across complex medical imaging pipelines.

Deep Learning Automation Developer | DarwinAI | Jan 2022 – May 2022

- Automated data and CSV export epics to replace manual verification, significantly accelerating the QA validation cycle for new releases.
- Engineered an SQL-based data generation tool, enabling the team to simulate edge-case scenarios and increase overall development velocity.

PROJECTS

AnyTalk | Accessibility Focused Communication Application | 2022

- Built a Flask-based REST API integrated with GCP (Text-to-Speech/Speech-to-Text) to enable real-time communication for speech-impaired users.
- Implemented MVVM design principles to structure complex data flows, ensuring high reliability for message conversion and history requests.

EDUCATION

University of Waterloo | Bachelor of Applied Science (B.A.Sc.) in Computer Engineering

- Relevant Coursework: Software Design & Architecture, Cooperative & Adaptive Algorithms (AI/Heuristics), Programming for Performance, Algorithm Design & Analysis, Database Systems.