Jack (Chengjia) Feng

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EDUCATION

Northeastern University, Boston, MA **Sep 2023 - Dec 2025**

Master of Science in Software Engineering Systems

University of Electronic Science and Technology of China, Zhongshan, GD, China **Sep 2018 - Jul 2022**

Bachelor of Computer Science and Technology

TECHNICAL SKILLS

Programming:	Java, C++, Python, SQL, Shell, HTML/CSS, JavaScript
Database:	MySQL, SQL Server, MongoDb, Redis
Frameworks and tools:	Spring MVC, Docker, Kubernetes, React.js
Cloud Platform:	AWS, Google cloud
AI-related:	LangChain, Hugging Face, CrewAI, PyTorch, Unsloth

EXPERIENCES

Phicil-itate Change, Cambridge, MA

Data and AI Development Intern **Jan 2025 - Aug 2025**

- Hosted a **Deepseek-R1** based fine-tuned model on **GCP** cloud platform to connect patients with customized healthcare solution.
- **Fine-tuned** hosted Deepseek-R1 model using SFT data, leveraging the **Unsloth** framework to optimize efficiency, reaching an accuracy rate of 90%.
- Developed a web application using **MongoDB, Express, React.js and Node.js** to provide service for healthcare innovation with **HIPAA** compliance.
- Built a **RAG** system with **LangChain** to match business reports with large-scale patient databases for depth-in AI generation, utilized **vector databases** (MongoDB Atlas search) for data storage and retrieval.

Guangdong Zhongshan Super Delight Software Co. Ltd, China

Software Engineering Co-op **Aug 2021 - Oct 2021**

- Participated in the development and overall testing of all modules, including solving **high concurrency** using **Spring Cloud** and **async processing** in a domestic hardware retail system in China using the F2B2C business model.
- Designed and developed **RESTful API** of the Warehouse and the Sales modules independently using **springMVC** framework, **MyBatis** and **SQL**, utilized **Redis** as **non-relational database** for cache.
- Enhanced system availability by 25% by implementing a **micro-service** architecture with **RabbitMQ** message queuing and **Redis caching** for the Warehouse and Sales modules.

ACADEMIC PROJECTS

Opt-imize - AI Agent for OPT/H1B legal process using RAG and LLM **Jun 2024 - Dec 2024**

- Built an AI chatbot platform using **Python**, to assist students with OPT and H1B immigration processes by leveraging **RAG** and **GPT-4o**
- Developed **AI agents** with **LangChain** and implemented a data pipeline for **real-time data crawling** from USCIS website with data storage in a **NoSQL** database, enabling accurate, up-to-date responses.
- Orchestrated a **multi-agent** system using **CrewAI** that improved legal content accuracy by 85% through optimized function calling and context management.
- Developed a web platform with **MERN** stack (**MongoDB, Express.js, React.js, Node.js**) that seamlessly integrated chatbot and agent services.
- Deployed on **AWS** using **Kubernetes,** achieving **99% uptime** and attracting over **100 active users** with consistent performance.

Cloud Platform Application - School Sports Meeting Management System **Oct 2023 - Jan 2024**

- Utilized **Spring Boot**, **MyBatis**, **SQL**, **Spring Cloud**, and **Docker** to create and deploy modules for sports field, equipment, and athlete management, improving administrative efficiency and user experience.
- Led back-end **debugging** and **RESTful API** development, ensuring system reliability and seamless front-end collaboration.
- Implemented robust **CI/CD** pipelines with **Jenkins** and **GitHub Actions**, automating testing and deployment processes that reduced release cycles by 60% while maintaining code quality

Chat Room system that can Transfer Files **Jul 2022 - Aug 2022**

- Developed a Chat Room application **independently** based on the **Java Standard Edition**, divided it into two modules: **client** and **server**
- Realized its functions of sending and broadcasting messages privately, transmitting files through **UDP** and **TCP** protocol to achieve the purpose of point-to-point transmission.