

Ruiyang Ji

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EDUCATION

Cornell University

Ithaca, NY, USA

Computer Science, BS

August 2022 - May 2026; GPA: 3.9

Relevant Courses: CS4780 (ML for Intelligent Systems), CS4320 (Database Management Systems), CS2110 (Java Data Structures & Algo), CS3110 (OCaml DS FP), MATH4310 (Theoretical Linear Algebra)

TECHNICAL SKILLS

Programming Languages: Python, Typescript, OCaml, Java, Go, Rust

Libraries & Frameworks: PyTorch, Pandas, NextJS, SvelteKit, VueJS, Springboot

Tools & Microservices: Pinecone, Postgres SQL, Git/GitHub, Docker, Jenkins

WORK EXPERIENCE

LLM Algorithms R&D Internship

LeYan Technologies. Shanghai, China

June 2024 - August 2024

- Configure & optimize docker environment, GitLab workflow, and GPU servers for testing OneFlow (PyTorch's Chinese clone), reducing **30%** of engineers' workload.
- Brainstorm & document **20+** use scenarios for **RAG+LLM** e-commerce product recommendation assistant.
- Extract **80k** potential QA from Little Red Book (Chinese Instagram) product reviews on **100+** catalogs.
- Evaluate down to **50k** QA's for production with **prompt engineering** using OpenAI SDK + parallel computing.

CS 3110 Teaching Assistant

Cornell University, NY, USA

August 2024 - Present

- Attend grading sessions for the **3** midterm exams, **8** projects, and held office hours **2 times** a week
- Advise a group of 3-5 students on final project in **2000+** lines of OCaml code
- Host weekly discussion sections & labs for **20+** undergrads about Data Structures, Functional Programming & Compilers in OCaml

Full Stack Externship

ToSupply.cn, Shanghai, China

July 2023 - August 2023

- Learn & practice Jenkins, Springboot for internal contract database and authentication management system with over **200+** employees, **1,000+** transactions.
- Contribute & PR to a mock React + Django full stack with automatically creating contracts for clients to sign.

PROJECTS

- **Owe Me**, Design & code SvelteKit application for managing loans + Deploy using Jenkins, Docker on my own rented VPS. [Github](#)
- **CourseSphere**, Developed an LLM-RAG consulting app to review, plan, recommend courses and professors in Natural Language. **Technologies:** Python, Pinecone, HuggingFace, Flask, and OpenAI. [Github \(WIP\)](#)
- **Cornell Scraper & Extraction**, Efficient web scraper for faculty directories, majors/minors, course offerings & descriptions under each college of Cornell. [Github](#) [Kaggle](#)
- **NumPy ML Lib**, Implemented common ML/DL algorithms: DNN, CNN, Multiheaded Attentions, Random Forest (decision trees), AdaBoost, Kernelized SVMs *using NumPy only*. [Github](#)
- **Personal Portfolio Website**, Designed and developed a personal portfolio website using Tailwind CSS for frontend design and React NextJS for architecture. [Try it!](#)

PUBLICATIONS

- Neural Network Based Mandarin Accents Regional Recognition (Using MFCC & CNN) [Link](#)

EXTRACURRICULAR ACTIVITIES

- **Sports & Hobbies:** Photography, Tennis, Violin, Hiking (ask me for photos!), Cornell Slope
- **Interests:** DevOps/MLOps, Software Development Engineering, **Toying around with a Linux VPS**