Ruiyang Ji

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EDUCATION

Cornell University   **Ithaca, NY, USA**
Computer Science, BS; Mathematics, BA   *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 Data Structures & Functional Programming), CS 4820 (Analysis of Algorithms), MATH4310 (Theoretical Linear Algebra)

TECHNICAL SKILLS

Programming Languages: Python, Typescript, OCaml, Java, Go
Web Frameworks: NextJS, SvelteKit, VueJS, Springboot
ML+Data: Pandas, HuggingFace, PyTorch, Pinecone, Postgres SQL
DevOps/MLOps: git GitHub GitLab, Continuous Integration, Docker, Jenkins

WORK EXPERIENCE

LLM Algorithms R&D Internship
LeYan Technologies. Shanghai, China   *June 2024 - August 2024*
- Led the configuration and optimization of Docker environments and GitLab CI/CD pipelines, reducing deployment time by **30%** for testing OneFlow (PyTorch's Chinese clone).
- 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

Full Stack Externship
ToSupply.cn, Shanghai, China   *July 2023 - August 2023*
- Implemented Jenkins pipelines and Springboot microservices to streamline the deployment of internal databases and authentication systems 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. **Challenges**: Authentication with Lucia-Auth + DrizzleORM on a Serverless Architecture. Github
- **CourseSphere**, Led a team to develop a LLM-RAG consulting app/bot to review, plan, recommend courses and professors in Natural Language. **Challenges**: Team coordination, sprint task planning. **Technologies**: React, TelegramAPI, Discord, 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. Visit 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**