

# 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, JavaScript, OCaml, Java, Swift iOS

**Web Development Frameworks:** React, NextJS, SvelteKit, VueJS, Springboot

**Machine Learning + Data Analysis:** Pandas, HuggingFace, PyTorch, TensorFlow, Pinecone, Postgres SQL

**DevOps/MLOps:** git GitHub GitLab, Continuous Deployment, Docker, Kubernetes, 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

- **CourseSphere**, Led a team to develop a LLM-RAG consulting app/bot to review, plan, recommend courses and professors in Natural Language.  
Design, implement, assign tasks to teach friends NextJS and collaborate for some PRs.  
**Challenges:** Team coordination, sprint task planning. **Technologies:** NextJS, shadcn/ui, Tailwind, TelegramAPI, Discord, Python, Pinecone, HuggingFace, and OpenAI. [Github \(WIP\)](#)
- **Cornell Scraper & Extraction**, Efficient web scraper for faculties, Reddit reviews, RateMyProfessors, majors/minors, course offerings & descriptions under each college of Cornell. Preprocess & vectorize into [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, Software Development Engineering Testing, **Toying around with a Linux VPS**