

Ruiyang Ji

+1 (707) 849 2690 - [Portfolio Website](#) - rj378@cornell.edu - [linkedin.com/in/jerryji2793](https://www.linkedin.com/in/jerryji2793) - github.com/jji-bigG

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, Java, OCaml, Typescript, Rust, Solidity

Libraries & Frameworks: PyTorch, Sklearn, Pandas, LangChain, React, NextJS, NuxtJS, Vue

Tools & Microservices: Qdrant & Pinecone VecDB, Postgres SQL, Git, Kubernetes, Docker, Ethereum

WORK EXPERIENCE

ML Algorithms R&D Internship

LeYan Technologies. Shanghai, China

June 2024 - August 2024

- Configure & optimize docker environment, GitLab workflow, and GPU servers for executing the testing framework for DL library OneFlow (PyTorch's Chinese clone), reducing 30% of engineers' workload.
- Brainstorm & solve various scenarios for conversations in a LLM-based recommendation app built using **RAG** (Retrieval Augmented Generation).

CS 3110 Teaching Assistant

Cornell University, NY, USA

August 2024 - Present

- Host weekly discussion sections & labs for **20+** undergrads about Data Structures, Functional Programming & Compilers in OCaml
- 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 1000+ lines of OCaml code

Frontend Developer

International Children's Education Association. Remote & Los Angeles, CA, USA

March 2021 - April 2023

- Implemented and launched product website for [Global AirLearning](#) program, serving **120+** presentations, **700+** volunteers, improving user interaction by 25%.
- Collaborated with a team of 3 on GitHub to manage PRs, debug React code, and synchronize frontend and backend, reducing deployment time by 15%
- Lead & onboard the development of a chess tournament registration website with authentication using React, Redux

PROJECTS

- **CourseSphere**, Developed an LLM-RAG consulting app to review, plan, recommend courses and professors in Natural Language. **Technologies:** Python, LangChain, Pinecone VecDB, 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](#)
- **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:** Machine Learning Engineer, Software Developer Engineer, Web3, Cloud Kubernetes, Site Reliability