

# Ruiyang Ji

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## EDUCATION

### Cornell University

*Bachelor of Arts in Computer Science, Mathematics — GPA: 3.88*

Ithaca, NY

August 2023 – December 2026

## EXPERIENCE

### LLM Algorithms R&D Internship

*LeYan Technologies*

June 2024 – August 2024

*Shanghai, China*

- Led the configuration and optimization of Docker environments and GitLab CI/CD pipelines, reducing deployment time by **30%** for testing OneFlow (PyTorch's equivalent).
- Brainstorm & document **20+** use scenarios for **RAG+LLM** e-commerce product recommendation assistant.
- Extract **80k** potential QA from XHS.com (Chinese Instagram) product reviews on **100+** catalogs.
- Evaluate down to **50k** QA's for production with **prompt engineering** using OpenAI SDK + parallel computing.

### Full Stack Software Engineer

*Cornell CMSX*

September 2024 – Present

*Ithaca, NY*

- Maintain Cornell's official CS course management system, used by **8,000+** students for efficiency and reliability
- Collaborate with a team of 12 on a project over **100k+** lines of legacy and new Java code under supervision of Professor Andrew Myers

### CS 3110 Teaching Assistant

*Cornell University, NY, USA*

August 2024 – Present

*Ithaca, NY*

- Review and grade **3** midterm exams, **8** projects per semester.
- Held office hours **2 times** a week for **2** hours each debugging and explaining functional programming concepts to implement niche data structures.

### Data Analytics & Applications

*Cornell Electric Vehicles*

September 2024 – Present

*Cornell University, NY, USA*

- Develop React application to aggregate real time status data of our EV supporting various visualizations.
- Create backend web sockets to receive data from EV sensors and emit to Heroku Postgres and React app

### Full Stack Externship

*ToSupply.cn*

July 2023 – August 2023

*Shanghai, China*

- Implemented Jenkins pipelines and Spring Boot microservices to streamline the deployment of internal databases and authentication systems, supporting over **200+** employees and **1,000+** transactions.
- Contributed and submitted PRs to a mock React + Django full-stack application that automatically creates contracts for clients to sign.

## PROJECTS

### Jotion | *Next.JS, Convex, TailwindCSS, Zustand*

September 2024

- Developed a full-stack web application using with Next.JS for reviewing and editing documents and notes
- Integrated Clerk auth, Convex realtime database, and shadcn/ui for styling and custom components
- Utilize recursive React components, react hooks, providers, suspense fallbacks

### My ML Lib | *Python, Numpy*

May 2024

- Implemented various machine learning algorithms including Multiheaded Attentions, Random Forest (decision trees), AdaBoost, Kernelized SVM, CNN.
- Wrote unit tests for these functions using CS 4780 Machine Learning material

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, OCaml, Java

**Frameworks:** React, Next.js, SvelteKit, Vue.js, Spring Boot

**Developer Tools:** Git, GitHub, GitLab, Docker, Kubernetes, Jenkins, Continuous Deployment, Jenkins

**Libraries:** Pandas, HuggingFace, PyTorch, TensorFlow, Pinecone, SQL (Postgres)