

Ruiyang Ji (Jerry)

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EDUCATION

Cornell University

Ithaca, NY

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

May 2026

- **Relevant Courseworks:** Operating Systems, Database management, Machine Learning, Algorithms Analysis, Data Structures, Linear Algebra, Linear Optimization, Theoretical Probabilities, Interactive UI UX Design

EXPERIENCE

Full Stack Software Engineer

Sep 2023 – Present

Cornell CMSX

Ithaca, NY, US

- Optimizing Cornell's course management system for **8,000+ students**, managing a **100k+ line Java JSP**, Jakarta (Spring Boot) RESTful APIs for reliable production.
- Collaborate with cross-functional engineers and performed code reviews through git + GitHub to prioritize bug fixes, track progress, and ensure AGILE alignment with project objectives.
- Resolving **2 support ticket bugs** and implemented **1 new React feature/component** per week.
- Design, implement, test, maintain CI/CD pipeline for Jakarta, JSP, React using Docker, Jenkins, Linux for Pull Request previews and integration testings.

Machine Learning Engineer - LLM Algorithms

June 2024 – Aug 2024

LeYan Technologies

Shanghai, China

- Configured optimized Docker environments and GitLab CI/CD pipelines onto 3 GPU servers on cloud and in house, reducing deployment time by **30%** for **OneFlow** (PyTorch equivalent) DL testing suite.
- Developed **RAG+LLM product recommendation** assistant by extracting **100k+ QA** pairs from terabytes of social media user data.
- Refined **50k** high-quality data points through generative AI and prompt engineering, using OpenAI SDK and Pandas while **parallel computing**

React Web Developer - Data Analytics & Apps

Sep 2024 – Present

Cornell Electric Vehicles Project Team

Ithaca, NY, US

- Maintain React LiveTiming dashboard to aggregate EV status data with various visualizations.
- Work with Electrical subteam to develop a Rust Embedded Software to send monitoring data to Kafka.

CS 3110 Teaching Assistant

Aug 2024 – Present

Cornell University, NY, USA

Ithaca, NY, US

- Guided **300+ students** in functional programming and debugging OCaml implementations.
- Held office hours **2 times** a week for **2 hours** each, providing support for debugging and explaining complex **functional programming** concepts and **data structures**.
- Managed two teams of **5 students**, guiding them through the design and implementation of final projects, each involving **2000+ lines of OCaml code**.

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, C++, Rust, Go

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

Dev Tools: Git, GitHub, Version Control, Linux (CentOS, Ubuntu), Docker, Jenkins, Continuous Integration Deployment

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