Ruiyang Ji

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EDUCATION

Cornell University   Ithaca, NY
Bachelor of Arts in Computer Science, Mathematics — GPA: 3.88   *August 2023 – May 2027*

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

EXPERIENCE

Full Stack Software Engineer   Sep 2024 – Present
Cornell CMSX   *Ithaca, NY*

- Optimized Cornell's course management system for **8,000+ students**, managing a **100k+ line Java codebase** to enhance scalability and reliability.
- Collaborated with cross-functional engineers and performed code reviews through GitHub to prioritize bug fixes, track progress, and ensure AGILE alignment with project objectives.
- Resolved **2 support ticket bugs** and implemented **1 new React feature/component** per week.

Machine Learning Engineer - LLM Algorithms Internship   June 2024 – August 2024
LeYan Technologies   *Shanghai, China*

- Optimized **distributed systems** by configuring Docker environments and GitLab CI/CD pipelines, 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**

CS 3110 Teaching Assistant   Aug 2024 – Present
Cornell University, NY, USA   *Ithaca, NY*

- 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++
Frameworks: React, Next.js, SvelteKit, Vue.js, SpringBoot, FastAPI
Developer Tools: Git, GitHub, GitLab, Docker, Kubernetes, Jenkins, Continuous Deployment
Libraries: Pandas, HuggingFace, PyTorch, TensorFlow, Pinecone, SQL (Postgres)