Jason Li

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EDUCATION

Case Western Reserve University | Cleveland, OH   **Aug 2023 - May 2027**

B.S. in Computer Science and Computer Engineering (Double Major), Econ & Math minor   **GPA: 4.0/4.0**

Honors & Awards: Dean's High Honors List (Every semester) | *Tau Beta Pi* Engineering Honor Society (Admissions Committee) | Case Alumni Foundation Junior-Senior Scholarship (2025) | Frank L. Merat Prize Recipient (2025)

TECHNICAL SKILLS

Programming Languages: Java, Python, C#, Javascript, Typescript, CSS, SQL, Bash, MATLAB, R
Frameworks & Libraries: React.js, Next.js, Node.js, Express, Tailwind, Axios, PyTorch, scikit-learn, Hugging Face
Tools & Platforms: Git, GitHub Actions, AWS, Terraform, Docker, Firebase, Snowflake, Supabase, Postman, Linux, Unity

RELEVANT EXPERIENCE

Software Engineer Intern │ 1848 Ventures (Innovation Engine)   **May 2025 - Present**
- Developed an AI-**powered lead generation platform** with **RAG, web scraping, and external APIs** to discover and enrich **50,000+ SMBs** with real-time **WebSocket** tracking; generated **1,000+ high-quality leads** for startups in the venture studio.
- Architected scalable system with **session-based PostgreSQL** data isolation, **AI enrichment pipelines**, and **AWS serverless infrastructure** deployed via **Terraform**; contributed to various ventures supporting end-to-end engineering efforts.

Software Engineer Consultant │ CWRU, Weatherhead School of Management   **June 2025 - Aug 2025**
- Building a **full-stack AI avatar kiosk application** with **Next.js**, **serverless backend**, and **AWS S3**, integrating **HeyGen streaming avatars** for **100+ daily users**, implementing real-time voice/text chat with **WebRTC** and **server-sent events**.
- Developing enterprise auth system with CWRU SSO integration using **CAS protocol** and **JWT sessions**, created dual-screen kiosk interface with **cross-browser state sync**, and built offline-first avatar management with **IndexedDB caching**.

Undergraduate AI/ML Researcher │ Prof. Gourav Datta's Lab, CWRU   **Jan 2025 - Present**
- Developed **SVD-based KV cache compression** with **fused output projections for multiple transformer architectures**, achieving **87.5% memory savings** with only **5% perplexity increase** through **dynamic rank selection.**
- Deployed **PyTorch** framework on CWRU **HPC clusters**; validated compression algorithms on model weights across **4 research-grade models** up to **8B parameters** with end-to-end inference pipelines and comprehensive benchmarking suite.

Software Engineer Intern │ Eaton Corporation   **Jan 2025 - May 2025**
- Developed an **AI training platform** using **Next.js**, **FastAPI**, and **Firebase**, integrating **RAG-powered simulated customers**, reducing onboarding time by **40%**. Delivered features like automated evaluations and performance dashboards.
- Built key features including **JWT authentication**, **role-based access control**, and a custom module creation system with over **20 predefined modules**, supporting **50+ users** across four access levels.

Lab Teaching Assistant │ CWRU   **Sep 2024 - Present**
- Conduct weekly lab sessions for **120+ students over 3 semesters**, enhancing hands-on learning of theoretical concepts.
- Grade lab reports and hold regular office hours, providing personalized support and feedback to students.

PROJECTS

SnapMenu │ *TypeScript, React Native (Expo), FastAPI, OpenAI, SerpAPI, Tesseract, Render*   **May 2025**
- Built an AI-powered mobile app that scans printed menus and displays enriched dish information with real images.
- Achieved **92%+ OCR accuracy**, generated dish summaries/tags in <**1.5s per item**, and retrieved images with **85% relevance**.

ExpressInk (HackCWRU) │ *React, Node.js, Omnistack*   **Jan 2025**
- Created an app to analyze art and provide mood insights for parents of nonverbal autistic children; **4th place of 30+ teams**.
- Implemented interactive drawing, mood visualization (tracking **50+ sample artworks**), event calendar, and secure login.

Premier League Prediction Model │ *Python, R, scikit-learn*   **Oct 2024**
- Developed a machine learning model with **k-fold cross-validation**, **feature engineering**, and **ensemble methods** to forecast Premier League standings, achieving R^2 **of 0.73** and **75% accuracy within two positions for 2024.**