

# Jason Seh

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## EDUCATION

B.S. in Computer Science & Engineering, Ohio State University

Expected May 2029

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, Java, C#

**Frameworks & Libraries:** Next.js, React.js, Node.js, FastAPI, PyTorch

**Databases:** PostgreSQL, MongoDB

**Tools & Platforms:** Cloudflare R2, Vercel, Git, GitHub Actions, Prisma

## PROJECTS

[LectureGraph](#) | *Next.js, FastAPI, Cloudflare R2, PostgreSQL, OpenAI Whisper, Prisma*

Jan 2026 - Present

- Architected an asynchronous multimodal pipeline to discretize linear video streams into a high-dimensional knowledge graph, leveraging OpenAI Whisper for timestamped transcription and Vision-Language Models (VLMs) for visual context extraction
- Integrated a scalable cloud infrastructure using Cloudflare R2 for zero-egress asset storage and Prisma ORM for efficient relational state management in PostgreSQL
- "Engineered a high-performance pipeline capable of transcribing and analyzing a 60-minute lecture in under 3-5 minutes, achieving a 15x-20x processing speed relative to real-time
- Optimized system latency by offloading compute-heavy inference (Whisper/LLM orchestration) to a dedicated FastAPI backend

[StreetLevel - AI Powered Language Learning](#) | *Next.js, PostgreSQL, Vercel, Prisma, OpenAI*

Jan 2026

- Designed and built an AI-driven conversational platform to simulate dialogue scenarios with structured success evaluation.
- Implemented a single-call LLM orchestration pipeline that combines roleplay, intent evaluation, and state transitions, reducing inference cost by ~50%.
- Optimized LLM usage for cost and scale by offloading pinyin and translation to server-side services, trimming prompt context, and enforcing structured JSON outputs.
- Deployed a production-ready full-stack application with automated CI/CD via Vercel and cloud-hosted databases (Prisma + managed PostgreSQL)

[Food Recommendation System](#) | *Next.js, PyTorch, FastAPI, GitHub Actions*

Dec 2025 - Jan 2026

- Trained a custom PyTorch recommendation model on 100k entries from HuggingFace, implementing one-hot encoding and a full forward/backward training pipeline
- Built a preprocessing pipeline to transform raw categorical user inputs into model-ready features for scalable training and inference
- Developed evaluation metrics to assess recommendation accuracy and ensure user-specific food suggestions
- Implemented a CI/CD pipeline with GitHub Actions to automate testing, builds, and deployment of the backend and frontend, enabling reliable iteration and rapid feature delivery

[GrAidscope - HackOHIO 2025](#) | *React, Vite, Flask, PostgreSQL, NGINX, Amazon S3, OpenAI*

October 2025

- Led frontend development of a React-based grading interface that enabled automated exam uploads and result visualization, contributing to a substantial reduction in grading time (2 weeks to under 2 minutes)
- Integrated frontend components with Flask API endpoints to support file submission, grading status tracking, and AI-generated feedback display
- Designed and implemented a responsive UI that streamlined exam review workflows and minimized manual grading overhead
- Collaborated with a cross-functional team under hackathon constraints to deliver a fully functional MVP within 24 hours

## WORK EXPERIENCES

**Countryside YMCA**

**South Lebanon, OH**

*Summer Camp Counselor*

*May 2024 - Aug 2024*

- Led daily operations for youth programs, ensuring safety, engagement, and coordination across teams
- Demonstrated leadership, conflict resolution, and responsibility in a fast-paced environment

**Countryside YMCA**

**South Lebanon, OH**

*Motion Zone Attendant*

*Oct 2024 - April 2025*

- Demonstrated leadership and situational awareness while resolving conflicts and guiding children during activities
- Logged incidents, maintained records, and communicated updates to management and fellow staff