JACOB YOON

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EDUCATION

Rochester Institute of Technology   *Rochester, NY*
Combined Bachelor of Science and Master of Science in Computer Science   *Expected Graduation: May 2026*

- GPA: 3.89/4.0 | Dean's List (All Semesters)
- Master's Thesis: LLM and embedding-based approaches for mathematical information retrieval
- Relevant Coursework: Information Retrieval, Machine Learning, AI, Computer Vision, Computational Geometry, Big Data, Parallel and Distributed Systems, Database Management, Algorithms

EXPERIENCE

Epic Systems   *Verona, WI*
Software Developer Intern   *May 2025 – Aug 2025*

- Designed an **LLM-powered** conversational provider search assistant for public hospital websites.
- Engineered a cloud-based, **multi-agent workflow** using internal **.NET** frameworks and **Azure** infrastructure to support real-time, high-volume queries.
- Developed simulation and evaluation frameworks to assess assistant behavior across 100+ conversation scenarios.
- Implemented interactive **React** components for displaying rich provider results within the chat interface.
- Created LLM evaluation pipeline to benchmark the impact of organization-specific **knowledge base RAG** on assistant performance over 1,500 simulated patient queries.

Dassault Systèmes   *Rochester, NY*
Software Engineer Intern   *Jun 2024 – Dec 2024*

- Built full-stack automation platform integrating Jira with internal issue tracking systems using **Angular** and **Node.js**, streamlining cross-functional workflows and saving 15+ hours of weekly manual work.
- Delivered critical feature enhancements and bug fixes for 3DEXPERIENCE platform using **.NET**, **Angular**, and **PostgreSQL**, supporting 500+ enterprise users in manufacturing workflows.

Dassault Systèmes   *Ithaca, NY*
Software Engineer Intern   *May 2023 – Dec 2023*

- Overhauled legacy search architecture using **Angular** and **.NET**, achieving 90%+ performance improvement.
- Optimized database query performance through .NET endpoint refactoring, reducing response times by 60%.
- Developed internal tools with **Angular**, **Express**, and **Docker** to automate data generation for app environments.

RIT Department of Computer Science   *Rochester, NY*
Student Lab Instructor   *Aug 2022 - Dec 2022*

- Guided 24 students taking CSCI-140 (CS for AP Students) through lab assignments and problem-solving sessions.
- Taught core CS concepts in **Python** and **Java**, covering object-oriented programming, algorithms, and data structures.
- Graded labs, projects, and assignments with detailed feedback to support student learning.
- Tutored 100+ CS students at the **GCCIS Tutoring Center**.

PROJECTS

Audio Spheres   *Nov 2024 - Dec 2024*
audio-spheres.web.app | github.com/jyoon926/audio-spheres

- Built a music discovery platform using **React** and **Spotify Web API**, visualizing user music taste through an interactive, tree-based interface with pan and zoom navigation.
- Implemented **Firebase** cloud persistence and CI/CD pipeline for automatic deployment.

SKILLS

Languages: TypeScript/JavaScript, C#, Python, Java, C, C++, HTML/CSS, SQL
Frameworks/Libraries: React, Angular, .NET, Next.js, Node.js, Express, Spring, Tailwind CSS
AI/ML: TensorFlow, PyTorch, PyTerrier, Hugging Face, NumPy, Pandas
Databases/Tools: Supabase, Firebase, MySQL, PostgreSQL, MariaDB, AWS, MongoDB, Docker, Jenkins, Postman, Figma