

JACOB YOON

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EDUCATION

Rochester Institute of Technology

Combined Bachelor of Science and Master of Science in Computer Science

Rochester, NY

Expected Graduation: May 2026

- GPA: 3.89/4.0 | Dean's List (All Semesters)
- Master's Thesis: Unified Graph Representations for Multimodal Mathematical Information Retrieval
- Relevant Coursework: Information Retrieval, Computer Vision, Machine Learning, AI, Computational Geometry, Graph Databases, Big Data, Parallel and Distributed Systems, Algorithms

EXPERIENCE

Epic Systems

Software Developer Intern

Verona, WI

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

Software Engineer Intern

Rochester, NY

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

Software Engineer Intern

Ithaca, NY

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

Student Lab Instructor

Rochester, NY

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

audio-spheres.web.app | github.com/jyoon926/audio-spheres

Nov 2024 - Dec 2024

- 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