

# JACOB YOON

(607) 262-2344 | [jy9726@rit.edu](mailto:jy9726@rit.edu) | [linkedin.com/in/jaacobyoon](https://linkedin.com/in/jaacobyoon) | [jacob-yoon.web.app](http://jacob-yoon.web.app)

## EDUCATION

### Rochester Institute of Technology

Rochester, NY

Combined Bachelor of Science and Master of Science in Computer Science

*Expected Graduation: May 2026*

- Cumulative GPA: 3.89/4.0, Dean's List (6 semesters)
- Relevant coursework: Information Retrieval, Machine Learning, AI, Big Data, Parallel and Distributed Systems, Database Management, Algorithms

## EXPERIENCE

### Software Developer Intern

Verona, WI

Epic Systems

*May 2025 – August 2025*

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

### Software Engineer Intern

Rochester, NY

Dassault Systèmes

*June 2024 – December 2024*

- Spearheaded full-stack automation platform integrating Jira with internal issue tracking systems using **Angular** and **Node.js**, eliminating 15+ hours of manual work weekly for 20+ employees.
- Delivered critical feature enhancements and bug fixes for 3DEXPERIENCE platform using **.NET**, **Angular**, and **PostgreSQL**, supporting 500+ enterprise users in manufacturing workflows.

### Software Engineer Intern

Ithaca, NY

Dassault Systèmes

*May 2023 – December 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.

### Student Lab Instructor

Rochester, NY

RIT Department of Computer Science

*August 2022 – December 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

*November 2024 – December 2024*

[audio-spheres.web.app](http://audio-spheres.web.app) | [github.com/jyoon926/audio-spheres](https://github.com/jyoon926/audio-spheres)

- Built an innovative music discovery web app 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 enabling users to save and manage multiple visualization sessions across devices.

## 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