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*

- 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+ team members.
- 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 | 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