Jacob Yoon

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EDUCATION

Rochester Institute of Technology   Rochester, NY
Combined Bachelor of Science and Master of Science in Computer Science   *August 2021 – May 2026*

- Cumulative GPA: 3.89/4.0

EXPERIENCE

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

- Designed and implemented a conversational provider search assistant for public hospital websites.
- Developed a cloud-based, multi-agent AI workflow using an internal **.NET** framework and Azure infrastructure support real-time, high-volume provider search and LLM generation.
- Created a simulation and evaluation framework to assess assistant behavior across 100+ diverse conversations.
- Built dynamic and interactive **React** components to display rich provider results within the chat window.

Software Engineer Intern   Rochester, NY
Dassault Systèmes   *June 2024 – December 2024*

- Led the development of full-stack automation tools using **Angular** and **Node.js** to seamlessly integrate Jira with internal issue tracking software, saving project managers and dev leads 3-5 hours per week.
- Developed full-stack solutions for user stories and resolved critical bugs with **.NET**, **Angular**, and **PostgreSQL**, enhancing the 3DEXPERIENCE platform's material tracking and reporting capabilities for enterprise users.

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

- Overhauled legacy application search functionality using **Angular** and **.NET**, improving search performance by over 90% and enhancing user experience.
- Optimized .NET endpoints for improved Oracle database interactions for overall system efficiency.
- Developed internal tools with **Angular** and **Express** to automate data generation for application environments.
- Created a CI/CD pipeline with **GitLab** and **Docker**, streamlining the deployment processes.

Student Lab Instructor   Rochester, NY
RIT Department of Computer Science   *August 2022 – December 2022*

- Assisted 24 students taking CSCI-140 (CS for AP Students) with lab assignments and problem solving sessions.
- Provided help with **Python** and **Java** to teach vital computer science concepts.
- Mentored over 100 introductory-level CS students in the GCCIS Tutoring Center.

PROJECTS

Audio Spheres   *November 2024 – December 2024*
audio-spheres.web.app | github.com/jyoon926/audio-spheres

- Designed and developed an innovative music discovery web app using **React** and **Spotify Web API** that visualizes user music taste through an interactive, branch-based interface with pan and zoom navigation.
- Implemented cloud persistence with **Firebase**, enabling users to save and manage multiple visualization trees.

SKILLS

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