

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: 3.88/4.0
- Relevant coursework: Machine Learning, Parallel and Distributed Systems, Programming Language Concepts, Database Management, AI, Algorithms, Mechanics of Programming, Intro to Software Engineering, CS Theory

EXPERIENCE

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.

Models @ RIT

July 2024 – October 2024

modelsatrit.com | <https://github.com/jyoon926/modelsatrit>

- Created a platform to connect photography students with models at RIT, using **React** and **Supabase**.

Retrieval Augmented Generation (academic)

March 2024 – May 2024

- Researched 7 papers on retrieval augmented generation, transformer architectures, and large language models.
- Replicated results from original papers using **Python** and the **Hugging Face Transformers library**, and implemented modifications to enhance the model's performance.

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, Hugging Face, NumPy, Pandas

Tools: Supabase, Firebase, PostgreSQL, Oracle, MariaDB, AWS, MongoDB, Docker, Jenkins, Postman, Figma