

Xavier Rao

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Objective

Seeking a Fall Software Engineering co-op using strong programming skills in Python, Java and JavaScript. Available August to December 2025.

Education

Rochester Institute of Technology (RIT)

Bachelor of Science, Software Engineering

Expected May 2028

Master of Science, Cybersecurity

Expected May 2029

Related Courses: Intro to Software Engineering, Web Engineering, Process and Project Management, Engineering of Software Subsystems, Intro to Cybersecurity

Skills

Programming Languages: Java, Python, JavaScript, HTML/CSS, TypeScript, SQL, C

Software: Visual Studio Code, IntelliJ IDEA CE, STM32CubeIDE, Fusion 360, Git, GDB, Maven, Jacoco, Angular

Projects

TypeSpeedrun, *Personal Project*

October 2025 – Current

- Developed a web app to assess typing speed, utilizing HTML, CSS, and JavaScript with inspiration from Monkeytype.com
- Implemented a mode selection bar, enabling users to customize their typing test based on time limit, word count, or quote length. Integrated the Fetch API to retrieve dynamic JSON data for an enhanced user experience

Infinite Tic Tac Toe, *Personal Project*

February 2025

- Developed a desktop app using Java Swing based on the *GiiKER Tic Tac Toe Bolt Game*

Cat Rescue, *Class Project*

Fall 2024

- Collaborated with a team of three to design and develop a web application aimed at rescuing abandoned cats in the Rochester area. Utilized Angular CLI, Java, HTML, CSS, and TypeScript to build a seamless user experience
- Designed and implemented key pages, including Login, Basket, Checkout, and Admin while integrating the frontend with the backend using Angular's HTTPClient for efficient data communication

Work Experience

MLC STEM Center | Bloomfield, NJ

Summer 2022/2024

STEM Mentor/Counselor

- Created and implemented comprehensive and adaptable lesson plans tailored to enhance collaborative student learning across a variety of subjects
- Delivered active learning instruction for classes of 20 students in foundational coding, physics, chemistry, and 3D design

TAG Online Inc. | Clifton, NJ

Spring 2023

Intern

- Worked in a small group to develop and design custom websites tailored to meet clients' unique specifications and requirements while maintaining a user-friendly, visually appealing, and functional website using a combination of WordPress, HTML, CSS, and PHP
 - o <https://www.pinkhammerhome.com/>
 - o <https://www.corbocollects.com/hotels/>

NanoGraf | Chicago, IL

June 2021 – July 2021

Intern

- Responsible for engineering high-performance rechargeable battery cells by formulating and mixing specialized slurries, followed by precision compression techniques within a controlled glove box environment
- Executed comprehensive research and analysis on competing patents within the field, meticulously documenting and organizing findings in detailed spreadsheets

Activities

RIT Varsity Track and Field

Winter 2023 – Spring 2023