

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

Rideshare System, *Class Project*

Spring 2023

- Created a database to track and store detailed records of every ride, including pickup and drop-off locations, timestamps, and ride duration with Python and PostgreSQL
- Incorporated APIs to call the SQL using Create, Insert, Select, Update, and Delete
- Updated database schema to suit new features requested by the customer

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
 - <https://www.pinkhammerhome.com/>
 - <https://www.corbocollection.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

Society of Software Engineers

Fall 2023 – Current

Northeast Earth Coalition Free Little Pantry Project

January 2022 – June 2023

- Delivered and restocked pantry boxes weekly in food-insecure locations throughout Montclair, NJ

Weston Science Scholars Program

Summer 2020

- Accepted into an exclusive summer science program in collaboration with Montclair State University