ZOE RIZZO

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EDUCATION

Rochester Institute of Technology	Rochester, NY
Bachelor of Science in Software Engineering	May 2027

Relevant Courses: Software Process and Project Management, System Reqs and Architecture, Engineering Secure Software

GPA: 3.0/4.0

WORK EXPERIENCE

SWEN-444 Human Centered Reqs and Design Teaching Assistant Aug 2025 – Present

- Reinforce class material and guide students through office hours and review sessions
- Provide constructive feedback on weekly project deliverables to students in a timely manner

Software Engineer Intern | New Jersey Innovation Institute COMET June 2024 – Dec 2024

Software Lead | Project W.A.R.D.E.N. Landing, NJ

- Led the software team to create control and communication code for an aerial drone and ground rover
- Implemented LAN network communications, using the aerial drone as a network extender
- Used NVIDIA Jetson Nano to implement live object detection using PlantNet-300K with OpenCV

Innerstill Mobile App

- Worked closely with a client to improve existing Flutter app by creating a robust design document
- Developed a script to automate administrative tasks and generate user-specific app activation codes
- Resolved critical issues by updating deprecated libraries and refactoring legacy code to ensure full functionality and seamless user interactions

PROJECTS

Wikipedia Race Personal Project, Aug 2024 – Oct 2024

- Created a program to find the quickest path from one Wikipedia article to another through hyperlinks using A* search and multithreading, visualized graphs with 300+ nodes using NetworkX and Matplotlib

U-Fund Non-Profit Donations Board Intro to Software Engineering, Aug 2023 – Dec 2023

- Led a team to design and build a non-profit donation website using Java Spring and Angular
- Conducted asynchronous code reviews to improve the quality of features

ORGANIZATIONS

Executive Board Member | RIT VEX U Robotics Aug 2022 – Present

- Led competition debriefs and planning meetings, acted as project manager to keep track of deadlines and facilitate open communication among sub-teams
- Established comprehensive documentation standards to preserve both technical and administrative knowledge, ensuring long-term team sustainability

FIRST Robotics Mentor Sep 2022 – Present

- Teach high school students good programming practices, design process, and proper documentation

SKILLS

Technologies: Python, Java, HTML, CSS, C, JavaScript, Spring Boot, Bootstrap, Next.js, PostgreSQL, Raspberry Pi, Arduino, Linux, Windows, Git, OpenCV, SonarQube

Methodologies: Agile, Scrum, OpenUP, Rapid Development