

John Ovalles

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Education

New York University

May 2027

B.A in Computer Science

- **Coursework:** Data Structures, Discrete Mathematics, Algorithms, Computer Systems Organization,
- **Honors and Awards:** HSF Scholar, National Leadership Conference Scholar, 2024 Mentor of the Year, HEOP Scholar

Research and Projects

Ratio (In progress)

- Using React and Redux to build a web app with a Reddit API built-in
- Using Jest, Enzyme, and Lighthouse to maximize efficiency and ensure optimal performance for users

Video Object Detection via SAM-TRACK and YOLO V8 — Python

- Led the research and development of advanced video object detection algorithms, leveraging SAM-TRACK, YOLO V8, and TensorFlow to enhance detection accuracy and efficiency
- Implemented a unique approach for real-time video analysis, achieving a 20% improvement in object detection precision

Experience

Software Engineer Intern

Liverpool, NY

Lockheed Martin

May 2025 – Aug 2025

- Planning to increase the efficiency of coordinate systems by improving algorithms to take up less memory and decrease time complexity

Computer Science Committee Chair

New York, NY

Academic Achievement Program at NYU

Aug 2024 – Present

- Supported students in understanding core computer science concepts including basic programming principles, data structures, and sorting algorithms in a multitude of programming languages (e.g., Python, Java)
- Led weekly tutoring sessions for students, leading to a projected 20-30% increase in their computer science class grades

Sub Regional Student Representative for NYC

New York, NY

Society of Hispanic Professional Engineers

Sept 2024 – Present

- Led initiatives to increase participation in STEM events, driving an expected 50% growth in student participation in tech-focused events to promote growth.
- Mentored student chapter leaders in organizational leadership and project management to execute visions effectively
- Led New York University's student chapter by making improvements to the organization's website and newsletter to increase event turnout rates by over 50%

Technologies

Programming: Java, JavaScript, Python, HTML, CSS, C, C++, SQL, Data Structures, Algorithms

Technical: Mac OS, Windows OS, Linux, Microsoft Office, Google Suites, Adobe Creative Suites

Communication: Fluent in English and Spanish