

# William Iadarola

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## Education

**New York University**, Tandon School of Engineering, Brooklyn, NY

May 2023

Bachelor of Science, Major in Computer Science, Minor in Mathematics

*Relevant Coursework: Software Engineering, Artificial Intelligence, Machine Learning, Design & Analysis of Algorithms, Computer Networking, Object Oriented Programming, Data Structures & Algorithms*

## Technical Skills

**Coding Languages:** Python, C, C++, Java, HTML, JavaScript, PHP, SQL, ASM, Verilog

**Operating Systems:** Windows, MacOS, Linux, Raspberry Pi Lite, Raspberry Pi

**Other Tools:** Debugger, Arduino, SolidWorks, Fusion 360, Fritzing, Revit

## Experience

**Software Engineer:** *ExoAnalytic Solutions*, Foothill Ranch, CA

August 2022-Present

**Software Engineering Intern:** *ExoAnalytic Solutions*, Foothill Ranch, CA

May 2022-Aug 2022

- Improve backend efficiency of warfighter visualization engine in JavaScript
- Optimized pathfinding algorithm by simplifying and combining polygons, leading to a 1500% decrease in runtime
- Created sprite clustering algorithm using R-trees to increase clarity and engine display capabilities
- Presented company-wide briefing on the integration of multithreading to improve algorithm efficiencies

**Admin Teaching Assistant:** *New York University, General Engineering Department*, New York, NY

August 2021-Present

**Teaching Assistant:** *New York University, General Engineering Department*, New York, NY

August 2020-August 2021

- Guide teams through rapid design and fabrication of functional complex engineering projects
- Conduct technical trainings on circuits, soldering, CAD, and programming
- Oversee asset management of materials and supplies required by over 700 students and staff annually

**Intelligence Subdivision Member:** *New York University, RoboSub*, New York, NY

August 2021-Present

- Develop algorithms for autonomous vehicles to complete realistic underwater missions in interuniversity competitions
- Design submarine navigational subroutines that utilize computer vision, gyroscopes, and ultrasonic sensors

## Projects

**InvesTio** (JavaScript, SQL (Oracle))

Fall 2022

- Designed an educational online platform to help users learn basic financial skills
- Developed back-end code capable of supporting lessons, quizzes, and user accounts
- Collaborated with a team of three undergraduate students to implement the completed system

**Three.js Mini-Projects** (JavaScript)

Summer 2022

- Completed diverse set of coding tasks to familiarize self with a JavaScript WebGL framework
- Gained experience with shaders, cameras, 2D/3D spaces, meshes, and animation

**Airline Ticket Reservation System** (JavaScript, HTML, PHP, SQL (MySQL))

Spring 2022

- Developed full stack platform for Introduction to Databases class project
- Supported features such as ticket purchasing, permission levels, and querying flight data

**Wi-Fi Remote Control Car** (Arduino, Python)

Summer 2020

- Built and programmed a VEX car that communicates over Wi-Fi using an ESP8266 board
- Employed Python sockets to bounce connection signals to various routers across a high school campus
- Problem solved issues such as decreasing network packet size and increasing message efficiency

## Activities

*Member*, New York University Magic the Gathering Club

Aug 2022-Present

*Summer Mentor*, Santa Margarita Catholic High School FIRST Robotics Club

August 2019-August 2021