

# Ryan Wadhwa

Riverside, Connecticut – 06878

+1(475) 419 – 5128

[Ryan.wadhwa12@gmail.com](mailto:Ryan.wadhwa12@gmail.com)

[linkedin/in/ryan-w265](https://www.linkedin.com/in/ryan-w265)

---

## PROJECTS

---

### DEEPPFAKE SIMULATION, Independent AI Researcher

*August 2024–Present*

- Utilize data analytics and machine learning models to detect the proper usage of artificial intelligence
- Leveraged a dual model approach to evaluate and refine the efficacy of existing detection models
- Assessed models including Defade and Online Media Integrity against key metrics such as F1 Score (0.63 for Defade), precision (0.502), recall (0.848), and AUC (0.504).

### BIOSENSOR FOR EARLY CORTISOL DETECTION, Science Researcher

*April 2023–November 2023*

- Fabricated a biosensor using molecularly imprinted polypyrrolle (MIP), to act as a specially reactive sensor for the electrochemical determination of Cortisol.
- Validated by performing rounds of testing using samples of saliva. MIP biosensor provided excellent sensitivity and accuracy for detection of normal vs stressed levels of Cortisol in the human body.
- Developed a poster and abstract, presented the researching findings, study design, data analysis and results interpretation to peers and judges, at CT State Science Fair and won the following awards:
  - Physical Science award at the Connecticut Science and Engineering Fair.
  - Biotechnology award at the CSEF, Greenwich board of education, Norwalk community college medallist.

### ECO-FRIENDLY SUNSCREEN FOR CORAL REEF PROTECTION, Science Researcher

*April 2022–March 2023*

- Researched the impact of commercial oxybenzone based sunscreens on Corals Reefs and on Human health.
- Created a nontoxic sunscreen at home by using nontoxic ingredients like zinc oxide and titanium dioxide. Tested multiple iterations of the sunscreen to validate results and side effects
- Awarded at the Connecticut Science and Engineering Fair. Earned the Physical Science award, US Airforce Award, Greenwich board of education

---

## PROFESSIONAL EXPERIENCE

---

### CODE NINJAS, Lead Instructor

*Stamford & Greenwich, CT October 2017 – Present*

- Guided over 50 students through 3D printing, Scratch programming, and Roblox Studio

### ROBOTICS CAMP, Founder and Lead Instructor

*Greenwich, CT July 2024 – August 2024*

- Designed and ran a robotics camp for middle school students, teaching how to build robotic cars from scratch.
- Integrated hardware assembly and Arduino programming to create an engaging learning experience.
- Subsidized fees to make the camp accessible; raised \$1,200 in revenue

---

## EDUCATION

---

### GREENWICH HIGH SCHOOL,

JuniorAP Physics 1, AP Calc B/C, Honors Science Research, Honors Chemistry, Honors Biology,  
GPA: 4.7/5.0)

*Expected June 2026*

---

## SKILLS AND AWARDS

---

- *Laboratory Skills:* HPLC Analysis, Equipment use, troubleshooting, data analysis, communication, documentation
- *Technical Skills:* Python, Java, Javascript, HTML/CSS, Jupyter, Video Editing, Notebooks, GIT, GitHub, StreamLit

- *Awards:* CSEF Biotechnology award, CSEF US Airforce Award, CSEF Physical Science Award, Greenwich Board of Education, Greenwich High School Science and Math Awards, All throughout honors roll