

# RONALD NETAWAT

## CURRICULUM VITAE

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### OBJECTIVE

A curious student with a strong computational, mathematical, and physics foundation interested in carrying out research and delving into the world of academia to work in the field of theoretical physics in the future.

### EDUCATION

B.S., Physics, Ohio Wesleyan University, May 2025

B.A., Mathematics, Ohio Wesleyan University, May 2025

### RESEARCH AND LEARNING EXPERIENCES

- Summer Science Research Program (SSRP) at Ohio Wesleyan University, studying Thermal Convection in Enclosed Porous Medium with Dr. Matthew McCurdy
- Independent research on Analyzing Game Theoretic Best Response Moves in Chinese Checkers with Dr. Hanliang Guo of Ohio Wesleyan University
- High School researcher at the University of Michigan Math and Science Scholars Program (MMSS). Worked online, collecting data for star formation and other celestial events
- Did a project where I collected observational data from LIGO's official website and with the help of my senior and YouTube, carried out the computation to re-discover merging binary black holes using Python libraries and packages like PyCBC and Matplotlib etc.

- Researcher at Collegey's The Big Picture Project, in the astronomy group. Working on a research paper of Architectural and Economic Attributes of Dyson Swarm - a modified version of Dyson Sphere.
- Self-taught Machine Learning and Artificial Intelligence. Did projects based on Reinforcement Learning (creating Neural Networks) and Supervised Learning: Stock Price Predictor, Housing Price Predictor.
- I run a blog website that I built, The Ron Writes, where I post weekly articles on the fields of Physics, Philosophy, and Technology with a total viewership of over 1000.
- Founded an organization with international membership along with my close circle of friends to help the people who were greatly affected by the COVID-19 pandemic. Helped around 100 families and over 250 individuals by giving them financial and mental support during the tough times.
- Founded an online journal publishing weekly articles on science and technology. With the main aim to bring more people to get intrigued by science.
- Worked as the host for the NextCast podcast by The Next Generation (a tech startup), where we interview people in the field of technology, business, entrepreneurship, and all things smart. We have a great listening audience spanning over several countries.
- Worked under the Next-Genius Foundation that organizes scholarships for international students to American universities. I worked as the video editing team head and the alumni interviewing team head.

## TECHNICAL SKILLS

- Machine Learning Using C++ and Python. Built several projects including sudoku Solver using PyGame, Perceptron Learning, etc.
- Linear Algebra, Discrete Math, Continuous Math, Introductory Quantum Mechanics and Relativity.
- Blockchain Development: I have self-taught myself all the basics from JavaScript to Smart Contracts (using Python) from various online courses and YouTube.
- Python is my native programming language. After HTML, Python was the language that I truly accomplished myself in.
- MySQL: I did this language along with Python to get myself an experience in database management.
- C/C++: Being a sophomore, I have had over three years of experience in C and C++.

- JavaScript: Self-learned JavaScript from YouTube and other online sources. Built some projects and learned web development.
- Online Writing: I enjoy writing about technical subjects and I feel I can do a pretty good job about it! My motivation is explaining things in simple and practical terms and thus making things easier for others.
- Website Building: I have had a great experience of building websites. I have created over 3 websites all on my own. I can run them, design them, and get them advanced for SEO.

## **AWARDS AND ACHIEVEMENTS**

- Florence Leas Prize 2023 for Second Year Students given by the Faculty of the Department of Mathematics and Computer Science at Ohio Wesleyan University
- 2nd position at the 2022 Pitch OWU competition at Ohio Wesleyan University for my startup idea
- 3rd position at the 2023 Pitch OWU competition at Ohio Wesleyan University for pitching a coating made by my contemporary and team partner
- Dean's List recognition, Fall 2021, Fall 2022, Spring 2023
- Phi Eta Sigma National Honor Society induction, 2021
- Sigma Pi Sigma National Physics and Astronomy Honor Society induction, 2024

## **LEADERSHIP SKILLS**

- Vice-President of Robotics Club at Ohio Wesleyan University
- Editor of the Newsletter run by SPS and Physics and Astronomy Department at Ohio Wesleyan University
- Philanthropy Chair in Horizons International Club at Ohio Wesleyan University.
- Worked as the school House Captain in Grade IX
- Worked as the Captain for 2 Inter-School Basketball leagues in the U-17 and U-19 categories
- Led the school science team in Bal Vigyan 2018-19
- Led the school band as the main orator in the 'Yamaha Teens Rock' school band battle 2019-20
- Represented the school in the Leadership Quality Building Programme in 2018.
- Played the role of a lead guitarist in the Cultural Team of RSIC 2019, India

## ARTICLES & NEWSLETTER

- [Determinism in Classical Physics, and Free Will](#)
- [Quantum Computation](#)
- [The Limits of Logic](#)
- [The Baryogenesis Anomaly](#)
- [String Theory vs Loop Quantum Gravity](#)
- Newsletter: <http://ronaldnetawat.substack.com>