

Rajeev Persaud

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PROFESSIONAL SUMMARY

Motivated Honours Physics student at the University of Waterloo with strong analytical, computational, and problem-solving skills. Interested in condensed matter and low-temperature physics, with hands-on experience in Python-based data analysis, simulation, and experimental design. Eager to contribute to research exploring quantum materials and superconductivity

EDUCATION

University of Waterloo

Candidate for Bachelor Of Science in Honours Physics

Waterloo, ON

Expected 2029

PROJECTS

Math & Physics Education Tool | *mathandmatter.com*

April 2025 – Present

- Attracted over 15,000 monthly users by creating clear breakdowns of complex physics and math topics
- Used Obsidian and LaTeX to turn advanced concepts into visual and digestible lessons for new learners
- Maintained a structured knowledge base of 500+ concepts, reducing friction in learning complex topic
- Produced tangible impact over 30+ countries through organic search & traffic

AI Exoplanet Classification Model | *React, 3JS, Next.JS, Python*

Sept 2025 - Sept 2025

- Built an accurate AI model to classify exoplanets for the 2025 NASA Space Apps Challenge, completing the project within competition deadlines
- Analyzed NASA datasets to train a machine learning achieving 80% accuracy in identifying planets
- Used Python, TensorFlow, and scikit-learn to design and train the model, iterating through multiple architectures to improve prediction precision

VOLUNTEER EXPERIENCE

Math & Physics Tutor

Physics Tutorial Centre

Sept 2025 – Present

University of Waterloo, ON

- Communicated effective explanations to aid 10+ students daily to deepen their understanding of concepts
- Adapted to students needs by explaining concepts either graphically or analytically in courses relating to Linear Algebra, Calculus & Classical Physics

Waterloo Rocketry

University of Waterloo

Sept 2025 – Present

Mississauga, ON

- Strong and reliable member of the department by taking the initiative to sort 100+ boxes per day
- Demonstrated effective allocation of time resources by completing required tasks before the deadline

ACHIEVEMENTS

School Competitions

- Placed 1st in 2024 Mini-Rocket Competition by using lasers, kinematics, weather data, and design of a rocket to predicate its altitude
- Placed 2nd in 2024 Spring Fling Competition applying cases of Hook's Law model to design experiments, test results, and deliver reports under tight deadlines

Extracurricular Competitions

- Placed 7th in TMMC Fall 5 KM Classic 2024 race
- Participated in Re-Fridgee-Eighter 2025 race

SKILLS

Soft Skills: Analytical, collaboration, adaptability, initiative, perseverance, receptiveness to feedback

Lab skills: Error analysis, curve fitting and regression, uncertainty analysis, experience with oscilloscopes

Technical Languages: Python, LaTeX, Javascript, CSS, HTML

Libraries & Frameworks: Numpy, Sympy, Pandas, React, Tailwind, 3JS, Next.JS

Developer Tools: TensorFlow, scikit-learn, Git