Maithili Rastogi

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EDUCATION

White Oaks Secondary School Sept. 2022 – Present
Ontario Secondary School Diploma *Oakville, ON*
- Cumulative average: 93% — Honour Roll

EXPERIENCE & EXTRA-CURRICULARS

Homework Club Mentor Nov. 2023 – April 2024
Big Brothers Big Sisters Halton *Oakville, ON*
- Considerably enhanced a student's academic performance by providing one-on-one mentorship and aiding in the completion of work

Girls Leading in Stem Club Senior Executive Oct. 2023 – Present
White Oaks Secondary School *Oakville, ON*
- Increased meeting attendance by 35% by generating interest in the club through posting stories on Instagram and teaching about diverse topics in STEM
- Guided students through building a calculator program in Python by creating and delivering computer science presentations
- Raised awareness about underrepresented groups in STEM by leading discussions on the challenges women face in STEM

DECA Member Oct. 2023 – Present
White Oaks Secondary School *Oakville, ON*
- Placed 1st out of 70 students in the Hamilton regional competition in the Principles of Hospitality and Tourism event for ability to create solutions in different case studies
- Placed 2nd in the Hamilton regional competition in Restaurant and Food Service Management event for ability to create solutions in different case studies
- Two-time provincial finalist (top 130 participants) for ability to overcome unexpected hurdles in business scenarios through problem-solving, communication, and public speaking skills

Teaching Assistant Jun. 2022 – Present
BestBrains Academy *Oakville, ON*
- Improved students' knowledge in mathematics and English based on performance in evaluations by providing one-on-one tutoring and explaining various concepts
- Decreased error rate in students' work by identifying mistakes and leading student through corrections

Executive Director Nov. 2024 – Present
STEM From Scratch *Remote*
- Executive director of STEM from Scratch, an organization dedicated to providing access to STEM opportunities to students, primarily in elementary school. This is achieved through bimonthly newsletters, workshops and Instagram posts
- Designed and led a workshop to introduce students to Scratch and guided them through training a machine learning model using Google Teachable Machine
- Led beginner and intermediate Python workshops to introduce students to the basics of Python

Director of Logistics and Sponsorship May 2025 – Present
RythmHacks *Remote*
- Leads Logistics and Sponsorship team to conduct outreach for venues and sponsors

Computer Science Blog Editor Nov. 2024 – Feb. 2025
STEM Fellowship *Remote*
- Wrote and edited articles for the STEM Fellowship computer science blog

Projects

Homegrown | *TypeScript & React*   Nov. 2023
- Worked on a project that allows user to discover local businesses in Oakville to support the local economy

Space Brain Hack   Feb. 2024
- Worked with a team to develop a proposal for a food production system on the moon
- Project titled "Lunar Greens" achieved second place in the Space Brain Hack competition, held by the Canadian Space Agency

Bay Area Science and Engineering Fair   Mar. 2024 – Mar. 2025
- Worked with a partner to create a homemade solar cell and tested the effects of wavelength of light on voltage output, and created Dye-Sensitized Solar Cells to determine the optimal type of dye in the solar cell
- Two-time winner of the Mohawk-Sheridan Award of Excellence for science fair exhibit and report

University of Toronto High School Design Competition Project   Nov. 2024
- Worked with a group of 5 people to create a solution to a civil engineering case study
- Achieved fourth place with team for determining how to reduce Urban Heat Islands