

Jaya Gupta

🎓 Nanotechnology Engineering
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SUMMARY

- Research experience working with nanomaterials
- Experience with Python, MATLAB, HTML, CSS, MS Office, UX design software; currently learning JavaScript frameworks
- Proven ability to learn and work quickly through past research work and team projects

EXPERIENCE

Undergraduate Research Assistant, Western University, Canada

May 2018 - Aug. 2018

- Fabricated thin films for solar cells using nanocrystals and electrodepositions
- Increased solar cell efficiency by 8% through a new wet-chemical process
- Developed problem-solving skills, ability to learn quickly, and new knowledge about semiconductor theory

PROJECTS

SmartHire TechTogether Boston 2019 Hackathon, Boston University

Mar. 2019

- Built an unbiased AI in Python using the IBM Watson Natural Language Understanding API and Google's Word2Vec Model for the backend
- Built front-end web-app in HTML, CSS, JavaScript, and Bootstrap; created mock-ups in UXPin
- Won the IBM Research Award for the Trusted AI Challenge and the Liberty Mutual Best Gender Equality Hack Challenge

MeelLia WiCHacks 2019 Hackathon, Rochester Institute of Technology

Mar. 2019

- Trained a mental health voice assistant model using the Google Cloud Natural Language Sentiment Analysis API, Google Dialogflow machine learning, and Python
- Built front-end website using HTML, CSS, and Bootstrap
- Won the MLH Best Hardware Challenge

EnviroKIDS ECOding Hacks 2019, York University, Canada

Feb. 2019

- Built a web-app containing a suite of games using jQuery, HTML, CSS, JavaScript, Bootstrap, and UXPin to improve kids' environmental education
- Won the ECOding Hacks Best Social Impact Hack Challenge

BioTEC 2019 Conference University of Waterloo

Jan. 2018 - Present

- BioTEC is Canada's top student-run conference for biotechnology & bioengineering
- Successfully secured 300+ applicants and 150 delegates for last year's conference
- Engage with external groups from other schools to form meaningful partnerships as an outreach lead

EDUCATION

University of Waterloo, Honours Nanotechnology Engineering

Sept. 2017 - Apr. 2023

- Candidate for Bachelor of Applied Science Degree in Nanotechnology Engineering
- Relevant Courses: Introduction to Python, Introduction to MATLAB, Probability and Statistics, Materials Science Characterization Lab
- President's Scholarship for an entrance average of above 90%