

Bhruvu Patel

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EDUCATION

UNIVERSITY OF TORONTO

H.B.Sc. IN BIOCHEMISTRY AND
COMPUTER SCIENCE

Expected Grad: 2022 | Toronto, ON
Cum. GPA: 3.7 / 4.0

LINKS

LinkedIn:// [bhruvupatel](#)

COURSEWORK

UNDERGRADUATE

Discrete Mathematics
Organic Chemistry
Physical Science Individual Research
Molecular Aspects of Cellular and Genetic
Processes
Cellular and Molecular Biology Laboratory

SKILLS

LAB TECHNIQUES

Sol-gel synthesis • FTIR • SEM
• Hydrothermal synthesis
• SDS-PAGE • Plasmid Transformation
• Preparation of competent cells
• DNA isolation • DNA digestion
• Maintaining bacterial culture
• Bacterial media preparation

PROGRAMMING

Proficient:
C • Python • Java • Autodesk Inventor
Familiar:
HTML\CSS • Javascript •
• \LaTeX

RESEARCH / VOLUNTEER

UNDERGRADUATE RESEARCHER

Clean Energy Lab, Professor Oleksandr Voznyy

- Synthesized amine functionalized silica nanoparticles using a sol-gel method for efficient CO₂ capture
- Learned how to use machine learning and applying it to the field of electrochemistry to find a possible chemical composition that stores more energy than current Lithium-ion batteries

VOLUNTEER IN CARDIOVASCULAR CLINIC

Patel Vascular Lab, Dr. Rajendra Patel

- Assisted Dr. Patel firsthand during minor surgeries, filed patient reports, and scheduled appointments for patients
- Learned how to use an Ultrasound machine to check for Carotid Artery Disease and buildup of plaque

EXPERIENCE

ECL TUTORING SERVICE | SCIENCE AND MATH TUTOR

Feb. 2019 – May 2019 | Ajax, ON

- Created lesson plans and worksheets that allowed students to strengthen their understanding of the course material
- Clarified students' concerns and questions preventing them from achieving complete understanding of the topics

CO-CURRICULAR ACTIVITIES

INDIAN STUDENT ASSOCIATION | JUNIOR EVENTS AND SOCIAL MEDIA DIRECTOR

Oct. 2018 – Present | Toronto, ON

- Transformed a meeting place into an aesthetic marvel to enhance the cultural experience during festivals
- Utilized social media platforms such as Facebook, Instagram, etc. to promote the organization and its brand

AWARDS

\$3,000	UofT Entrance Scholarship
\$1,500	Saratoga Hospital Volunteer Guild Scholarship
\$1,000	Nick Cammarata Memorial Scholarship
2018	AP Scholar with Honour and AP Scholar

INTERPERSONAL SKILLS

- Developed expertise in communication by interacting with doctors (550+ hours volunteering in hospitals)
- Exercised leadership qualities while planning for a Thanksgiving banquet and Diwali festivities at University of Toronto
- Demonstrated written and oral proficiency within lab reports and scientific presentations