

# Bhruvu Patel

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## EDUCATION

### UNIVERSITY OF TORONTO

H.B.Sc. IN BIOCHEMISTRY

DOUBLE MINOR IN STATISTICS AND BIOLOGY

Expected Grad: 2022 | Toronto, ON

Cum. GPA: 3.7 / 4.0

## LINKS

LinkedIn:// [bhruvupatel](#)

Website://

<https://patel-b.github.io/website/>

## COURSEWORK

### UNDERGRADUATE

Biochemistry I & II

Organic Chemistry I & II

Analytical Chemistry

Practical Approaches to Biochemistry

Physical Science Individual Research

Cellular and Molecular Biology Laboratory

Linear Algebra

Discrete Mathematics

## SKILLS

### PROGRAMMING

Proficient:

C • Python • Java • Autodesk Inventor

Familiar:

Matlab\Octave • HTML\CSS

Javascript •  $\LaTeX$

### 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

## ENTREPRENEURIAL

### SHOPIFY E-COMMERCE BUSINESSES

COVID-19 Pandemic

- Built two Shopify stores from scratch to create a brand and learn e-commerce
- Used Facebook and Instagram to generate strong brand image and increase customer loyalty
- Ran Facebook ads to target a wider audience and increase brand awareness

## RESEARCH / VOLUNTEER

### UNDERGRADUATE STUDENT RESEARCH AWARD (NSERC)

Clean Energy Lab, Professor Oleksandr Voznyy

- Used machine learning to the field of electrochemistry to find potential chemical compositions more suitable for storing energy than current Lithium-ion batteries
- Developed an automated synthesis procedure for multi-metal oxy-hydroxides using the sol-gel technique on a pipetting robot

### 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 | PRESIDENT, SOCIAL MEDIA, AND MARKETING DIRECTOR

Oct. 2018 – Present | Toronto, ON

- Led a team to carry out events at a high standard while upholding social distancing guidelines through unprecedented times
- Utilized social media platforms such as Facebook, Instagram, etc. to promote the organization and its brand
- Used creativity and innovation to turn plain settings into aesthetic marvel for cultural festivals

## AWARDS

\$6,000	NSERC Undergraduate Student Research 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