

Devansh Bhutani

+1 (647) 2965480 | devansh.bhutani@mail.utoronto.ca | www.linkedin.com/in/devansh-bhutani-a617611b1

EDUCATION

University of Toronto

Sept. 2025 –May 2030

Bachelor of Applied Science in Computer Engineering + PEY Co-op (**Current Grade:** 87.2%, **GPA** 3.83)

Relevant Coursework: Engineering Design, Linear Algebra, Materials Science, Mechanics, Electrical Fundamentals, Dynamics, Computer Fundamentals (C programming)

To be Completed by April 2027: Digital Systems, C++ programming + OOP, Advanced Engineering Mathematics and Physics, Signals and Systems, Computer Organization, Software Design and Communication

Lorne Park Secondary School

June- 2025

Activities: President: Math, Physics; Vice President: Athletic Council; Exec: Computer Club, Mentors, Student Activity Council; Sports: Badminton, Ping Pong Varsity, Basketball, Cross Country

EXPERIENCE

Undergrad Researcher – Prof Georgia Pierrou Research Group

May 2026 – Present

- Conducted research on stochastic wind-speed modeling for power system dynamic studies, analyzing SDE-based methods using Ornstein–Uhlenbeck processes, Weibull distributions, autocorrelation functions, and memoryless transformations.
- Developed Python and MATLAB scripts to generate synthetic wind-speed trajectories from real wind-speed data by fitting Weibull shape/scale parameters, estimating autocorrelation, calculating the decay parameter α , and comparing real vs. simulated wind-speed behavior.
- Automated NOAA data collection by writing Python scripts.

RSX Design Team- Software Team member

Sept 2025 and Jan-April 2026

- Contributed to the design and implementation of the rover's autonomy system within the state machines sub team.
- Learned and applied ROS2 and Python to support refactoring and migration of old code into the new system architecture.
- Worked on the software side of the GUI for the science team using the PyQt library and ROS2, developing features for data visualization, system interaction, and communication between software components to support scientific operations and testing.

Office Assistant- Re/Max Gold Realty

August 2024- September 2024

- I volunteered as an office assistant under Mr. Bhattal. In that role, my main focus was to manage data, organize and update office records, and provide overall support with the administrative work.
- Arranged appointments and helped in communicating with clients.

Braze Mobility- Hardware and Software Intern

July-September 2024

- Assisted with assembling hardware components, testing software, etc.
- Gained hands-on experience with blind spot wheelchair sensors and conducted research on business expansion.
- Enhanced problem-solving and technical skills through real-world applications.

Peel Skills Coding 2024 Contest - Lead Organizer

March 2024 and April 2025

- Qualifying event for the Ontario Skills Competition sponsored by Skills Canada Ontario and Peel Skills Challenge (PSC).
- A leadership role in coordinating the Peel Skills Coding 2024 Contest by collaborating closely with teachers to develop and refine competition materials, ensuring alignment with curriculum objectives and competition guidelines.

Student Equity Lead Council - Peel District School Board (PDSB)

September 2024-25

- Contributed to policies and practices that promote equity, anti-racism, anti-oppression, and improving the school experience for students.

Peer Tutor - Lorne Park Secondary School

2022-25

- Helped grade 9, 10, and 11 students with mathematics and chemistry.

CERTIFICATIONS

Google Data Analytics Certification

February 2024-June 2024

- Sponsored by Peel District School Board to teach data analytics through the Google Data Analytics Certification to 200 students who were selected from the pool of more than 153,000 students in 259 schools.
- Analyze and visualize data, discovering patterns and trends to improve understanding of economic data related to real-world events.
- Complete Capstone project using SQL and R programming.

Google Cybersecurity Professional Certificate

- Completed 6 courses (Foundations of Cybersecurity, Play It Safe: Manage Security Risks, Connect and Protect: Networks and Network Security, Tools of the Trade: Linux and SQL, Automate Cybersecurity Tasks with Python, Put It to Work: Prepare for Cybersecurity Jobs)

AWARDS

- **Governor General Bronze Medal:** It is awarded for academic excellence to the student who achieves the highest average upon graduating from a secondary school.
- **First Year Summer 2026 Research Fellowship- \$7000**
- **Dean's Honour's List Fall and Winter Semester (First Year)**
- **UTEK Consulting Competition:** Ranked Top 8 among competing teams
- **School Champion** -Waterloo Math Contest Grade 10,11, and 12
- **Silver Key Award** (Grade. 10,11), **Platinum Extracurricular Award** (Grade 12), **Athletic Letter**
- **Highest Mark Award**
 - Grade 11: Physics, Chemistry, Computer Technology, Computer Science, and Communication Technology
 - Grade 12: Advanced Functions, Chemistry, Computer Engineering Technology, Computer Science, English, Communication Technology, Yearbook Leadership Award

Projects

Relief Jacket

- Built a wearable emergency system using Arduino Uno and ESP32 to send live location and panic signals to a web dashboard, with sensors for body temperature and obstacle detection to aid post-disaster recovery.

Capstone Project-Fitness Tracker Data

- It was a part of the Google Data Analytics Certification. I worked with the FitBit fitness tracker dataset that is available on Kaggle. Used data to learn about user habits and give useful insights to Bellabeat, a company that makes health-focused products for women. I followed six main steps: Ask, Prepare, Process, Analyze, Share, and Act.

Engineering Design Project - Tech4All Storage & Workflow System

- Developed an accessible and environmentally sensitive route concept for High Park Nature Centre, using stakeholder analysis, accessibility constraints, and structured design tools to narrow **281 ideas** into a selected Floating Boardwalk solution.

APS112 Engineering Design Project-Modular Storage System for Tech4All Refurbishment Hub

- Led a 5-person team to design a modular storage system for Tech4All's refurbishment hub, evaluating 200+ concepts and using decision matrices plus FlexSim simulation to improve workflow efficiency, organization, and equipment safety.

SKILLS

Technical: C#, C, C++, ROS2, Python, SQL, MATLAB, GitHub, Data Science and Analytics, Arduino

Professional: Engineering Design, Communication, Systems Integration, Leadership, Team Player, Problem Solving