HETAV **PANDYA**

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Date of Birth: 05 December 2001
Languages known: English, Hindi, Gujarati

EDUCATION

MARCH 2017 – APRIL 2019

HIGH SCHOOL, THE NEW TULIP INTERNATIONAL SCHOOL, INDIA – 98.20%

Completed my senior year in high school with mathematics, physics and chemistry being my core subjects. My final score for all my subjects is as follows:

- Chemistry – 100/100
- Mathematics – 99/100
- Physics – 99/100
- English – 93/100
- Physical Education – 100/100

Awarded the "Student of the Year" trophy for securing the first rank in my state (Gujarat) in AISSCE (All India Senior School Certificate Examination), conducted by the Central Board of Secondary Education of India in March 2019.

SEPTEMBER 2019 – PRESENT

COMPUTER ENGINEERING, UNIVERSITY OF TORONTO, CANADA – 4.0 GPA

I am an engineering student at the University of Toronto and few of my courses include:

- Software Communication and Design
- Computer Organization
- Programming Fundamentals
- Advanced Engineering Mathematics
- Digital Systems and Signals

SKILLS

- C and C++ Programming (2 years)
- Competitive programming (3 years) [10th Rank in University of Toronto Clan on CodeWars]
- Machine learning integrated Computer Vision (2 years)
- Group project management (1 year)
- Python Programming (3 years)
- MATLAB, MySQL, Teradata SQL [Data Analysis] (2 years)
- HTML5, CSS3 and JavaScript. (1 year)
- Public speaking (6 years)
- Advance mental mathematics – UCMAS

EXTRA-CURRICULARS

- Data Analyst and Google Analytics Lead at the Blue-Sky Solar Racing Team at the University of Toronto.
- Study Hubs Community Contributor at the University of Toronto, St George campus.
- Participated in NewHacks 2020, NSBE Hacks 2020, COVID – 19 Hack Challenge, Dream Hacks 2020.
- Leader of a team of six members that analyzed the impact of floods on the tourism industry of the Toronto Island and designed an effective solution that was financially viable.
- Project Manager of a team of six members that designed a lightweight portable lift that helps quadriplegics to transfer between wheelchair and elevated surfaces like bed.

PERSONAL PROJECTS

- **COVID-19 InfoBot** – Wolfram Award at COVID Hack Challenge – Python, Web Scrapping, Speech Recognition:
  A voice assistant that provides users with credible and updated information regarding the COVID-19.
- **Machine Learning Data Bot** – Python, Selenium, Web Automation:
  You no longer must rely on available data sets, the bot generates image data set of desired size for you.
- **Hands2Ears** – Bloomberg Challenge Winner and 2nd in NSBE Hacks 2020 – Python, OpenCV, Speech Recognition:
  It uses neural networks to convert sign language to human speech in real time.
- **Drowsy Driver Detector** – Python, OpenCV, Face Recognition - Viola Jones ML algorithm:
  The program alerts the driver if they are drowsy thereby preventing fatal crashes.
- **Personal Website** – HTML5, CSS3, PHP:
  A more detailed and informal description of who I am. Built using raw HTML, CSS and PHP from scratch.
- **My other projects** on Computer Vision, Digital Art, Data Analysis, Web Automation and Machine Learning.

WORK EXPERIENCE

- Junior Software Engineer – iFlow Tech **[May 2020 – August 2020]**
  - Worked from start-to-deployment of a client project that automates inventory management and implements machine-learning to optimize stocking cycles.
  - Created custom web automation scripts in Python to boost internal productivity of the team.
- Data Analyst in Blue Sky Solar Racing Team, Canada **[Jan 2020 – Present]**
  - Used MATLAB and data visualization techniques to analyze and improve the performance of Viridian (The solar car that ranked 11th in the world solar challenge 2019).
  - Developed strategy that improved the battery performance by 20% and predicted the optimum speed based on parameters like solar irradiance, latitudes, longitudes, azimuth and elevation angle.
  - Developed strategy to significantly reduce time taken to complete the race for the upcoming the World Solar Challenge 2021 in Australia.
- Software Content Specialist - DEEP - Engineering Outreach, University of Toronto **[Feb 2020 – May 2020]**
  - Developed the “Computer Imaging” course that teaches the OpenCV library in python.
  - Developed the “Data Analytics using MATLAB” course.
  - Successfully collaborated with two instructors to develop strategies to deliver the course content.

HONORS AND AWARDS

- Wolfram Award at the COVID-19 Hackathon Challenge (2020)
- 2nd Rank in NSBE Hacks 2020 organized by NSBE University of Toronto (2020)
- 1st Rank in Bloomberg First Time Hack Challenge (2020)
- University of Toronto Dean’s Honor Award (2020)
- Central Board of Secondary Education Grade 12 - Gujarat State Topper (2019)
- University of Toronto International Scholar’s Award scholarship (2019)
- HackerRank Golden Badge Award in Python and Silver Badge Award in C. (2020)
- “Tallent-ex Competition” State Rank - 7, Zonal Rank - 9, All India Rank - 139 (2018)
- National Science Olympiad Gujarat State Rank - 23 (2017)
- Rotary International Inter-School Quiz 2nd position (2017)
- Indian National Talent Search Examination Merit Certificate (2017)
- Certificate for outstanding performance in ASSET [Science and Mathematics] (2017)
- Scholar certificate for the annual academic session (2016)
- Distinction – All India Mathematics and Science Olympiad (2015)
- Merit Academic Excellence Award (2014 and 2015)
- Platinum award in SIMS Mathematics contest (2012)