Vaskar Nath

6 Hoskin Avenue, Toronto, ON, M5S 1H8 · (403)-619-4644 vaskar.nath@mail.utoronto.ca · LinkedIn: Vaskar Nath

Education

2018 - 2022

TORONTO, ONTARIO

Honors Bachelor of Science In Computer Science and Mathematics / University of Toronto

- Current Standing GPA: 4.0, Cumulative Average: 92.0%, Deans List
- University of Toronto Scholar Entrance Scholarship Awarded to top 5% of UofT students upon admission \$7,500
- Trinity College Kao Family Scholarship One of 90 scholarships awarded to Trinity students upon admission \$2,000
- In Course Academic Scholarship for High Academic Achievement in First Year \$500

2015 - 2018

CALGARY, ALBER

International Baccalaureate Diploma & Alberta HS Diploma / Western Canada High School

- Overall GPA: 4.0, 3-year Cumulative Average: 96.2%, 43/45 IB Diploma (Top 3% Worldwide)
- Honor Society Lifetime Member, 3x Honors with Distinction
- 3x Alexander Rutherford Scholarship \$2500

Work/Experience

MAY 2019 – SEPTEMBER 2019

CALGARY, ALBERTA

Computational and Statistical Genomics Researcher/ Alberta Health Services

- Alberta Children Hospital Research Award \$6000
- Modified former statistical and probabilistic models to incorporate various natural phenomena
- Utilized a computing cluster to run analysis and gather results via Python scripts
- Derived and implemented four probabilistic Markov Chain models in Python and C++
- Continued work in analysis of the derived models and derivation of other probabilistic and statistical models

JUNE 2017 – SEPTEMBER 2017

CALGARY, ALBERTA

Applied Mathematics Researcher/University of Calgary

- Attempted to solve an individual, currently unsolved, problem with weekly guidance from the leading professor solved the diagonal and Werner-State cases within the three-month period
- Self-learned advanced linear algebra, calculus, and analysis topics

SEPTEMBER 2016 – AUGUST 2018

CALGARY, ALBERTA

Tutor & Mentor / Kumon Math and Reading Centre

- Instituted mentoring program between pre-kindergarten and 12th grade students, increasing student development and enthusiasm for learning
- Taught skills in math, reading, and writing via individual and group instruction

MAY 2019 - AUGUST 2019

CALGARY, ALBERTA

Canvasser/ Major Political Party

• Conversed door to door to gather data on political views, while sharing the political polices of the party to answer questions regarding local issues

Skills

Languages and Technologies

Python, Java, C, C++, Verilog, Git, LaTeX, Command Line, Bash Script, SLURM

Course Work

• Intro. To Machine Learning, Analysis I & II, Linear Algebra, Computer Hardware, Physics, Data Structures, Theory of Computation, OOP, Programming, Probability and Statistics I & II, Economics, Organic Chemistry

Projects

Android App Using Android Studio (https://github.com/VaskarNath/first-android-app.git)

 Developed a large-scale android app with a group of 5, adhering to various object-oriented design and coding principles

Enhanced Snake Game with Hardware (https://github.com/VaskarNath/snake-hardware.git)

Created 2-player snake with a randomly generated fruit, randomly moving fruit, and keyboard input functionality