

# SAHIL PATEL

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I hold both American and Canadian citizenships and I am able to work in both countries

## PURPOSE

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I am seeking experiences that will statistically challenge me to learn more and allow me to make a real-world impact.

## EDUCATION

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**University of Toronto - St. George** September 2020 - (intended) 2023  
*Statistical Theory Specialist, Math Minor, CS Minor - 3rd Year by Credits* GPA: 3.63/4.0

- Relevant Completed Courses: Analysis 1, Probability and Statistics I, Algebra I, Linear Algebra II, Math Expressions for CS, Introduction to CS, Multivariate Calculus, Probability and Statistics II
- Relevant Courses in Progress: Methods of Data Analysis I & II, Statistical Machine Learning I & II, Probability, Stochastic Processes, Time Series Analysis, & Neural Nets and Deep Learning
- Awards: Dean's List Scholar

**Raleigh Charter High School** August 2016 - June 2020  
*Summa Cum Laude* GPA: 3.93/4.0

- AP Courses: Calculus AB + BC, Physics 1, Physics C (M + EM), Chemistry, Biology, and Statistics
- Awards: AP Scholar with Distinction, National Honor Society, Silver - Level 4 National Spanish Exam

## WORK EXPERIENCE

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**Predictnow.ai** April 2021 - Present  
*Consultant* Online

- Developed visuals that would help users analyze their financial models using SHAP values
  - Learned to research quantitative analytic techniques to improve the usefulness of my code
- As an intern, I learned how to develop new skills needed to complete a given project through research, and implement my work into a larger codebase.

**Goldfinch S.T.A.** November 2017 - August 2019 & May 2021 - Present  
*Intern* Durham, North Carolina & Online

- Collected and interpreted data from a scintillator as well as learned to use other shop equipment
  - Researched and summarized academic papers to create synopsis of information
  - Flew sensors carrying drones and aircraft after obtaining my Part 107 Drone License
- As an intern I learned how to better construct new ideas from what I've been taught previously to better solve the problems ahead of me.

**Vision Martial Arts** November 2017 - October 2020  
*Assistant Instructor* Cary, North Carolina

- Led and instructed a class of 20-40 adults and kids
  - Taught value life skills like respect, honor, and self-esteem
  - Planned exercises daily tailored to the students needs so that they can continue and progress as martial artists
- As an assistant instructor, I honed my leadership skills and learned how to adjust my leadership style depending on my group members. I also improved my communication skills so that I could be a more effective leader.

## PROJECTS

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### 00100100

March 2021 - Present

*Lead Developer*

*Online*

- Constructing an algorithmic trading bot that trades cryptocurrencies on the Kraken Exchange that currently manages \$500,000+ in our users' assets
- Used REST and WebSocket APIs to retrieve data and deploy trades in python

While working on this project, I am learning how to research and teach myself new financial and mathematical concepts along with various programming libraries in order to better our bot.

### UofT Numerai Data Science Tournament

November 2021 - Present

*Team Leader*

*Online*

- Applying machine learning concepts from my courses to generate an accurate and profitable machine learning model for the Numerai hedgefund
- Researching machine learning techniques, especially within feature selection, to improve the accuracy of the model

While working with a team in this tournament, I'm learning how to research and be innovative within the field of machine learning to generate new models that improve our prediction accuracy.

### North American Talent League (now closed)

April 2020 - January 2021

*Director*

*Online*

- Planned, organized, and broadcasted competitive esports tournaments
- Led and managed a team of 30 staff members

As the director, I learned how to coordinate, multitask, and schedule on a large scale in a fast paced environment.

## VOLUNTEERING

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### Red Cross

April 2017 - December 2020

*Volunteer*

*Cary, North Carolina*

- Ensured donors are registered for their appointments and directing them on steps before donating at the front desk
- Communicated with donors making sure they are comfortable after donating blood at the canteen
- Bronze Presidential Volunteer Service Award

## TECHNICAL SKILLS

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### Languages

Python, R, HTML, CSS, Excel, &  $\text{\LaTeX}$

### Python Concepts

Web scraping, SHAP, REST/Websocket APIs, Asyncio, NumPy, & Pandas

### Social Languages

English (native) and Spanish (limited working proficiency)