SAHIL PATEL

(919) · 744 · 4977 ⋄ sas.patel@mail.utoronto.ca ⋄ https://www.linkedin.com/in/saspatel/

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

EDUCATION

University of Toronto - St. George   September 2020 - (intended) May 2023
Statistical Theory Specialist & Math Minor   *GPA: 3.66/4.0*

· Relevant Completed Courses: Real Analysis, Multivariate Calculus with Proofs, Probability, Theory of Statistical Practice, Statistics for Machine Learning I & II, and Deep Learning and Neural Nets
· Awards: Dean's List Scholar

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

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

RESEARCH EXPERIENCE

Pardee Lab   May 2022 - Present
Undergraduate Researcher   *University of Toronto*

· Researched machine learning techniques to discover meaning in protein structures
· Hosted small presentations on what machine learning is and how the lab can leverage this technology
· Designed a system to that could efficiently train a machine learning model and run AlphaFold quickly

WORK EXPERIENCE

Predictnow.ai   April 2021 - Present
Consultant / Feature Engineer   *Online*

· Developed visuals that would help users analyze their financial models using SHAP values
· Researched published trading techniques using a variety of features to determine their relevance and usability in the markets
· 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.

00100100 Factory   March 2021 - Present
Project Manager & 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, run calculations, and deploy trades in python using our proprietary trading algorithm
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.

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

· Collected and interpreted data the light spectrum data from a scintillator to determine the presence of radioactive isotopes
· 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 a variety of 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.

TECHNICAL SKILLS

Programming Languages	Python, R, HTML, CSS, Excel, & LaTeX
Python Libraries	SciPy, NumPy, PyTorch, & Pandas
Social Languages	English (native) and Spanish (limited working proficiency)