SAHIL PATEL

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EDUCATION

University of North Carolina at Chapel Hill – Chapel Hill, NC   Aug 2018-present
Biomedical Engineering/Applied Mathematics Major and Computer Science Minor
- GPA 4.00; Dean's List, Aug 2018-present; Abram's Scholar, Aug 2019-present
- Partnerships Committee Member of GlobeMed, an NPO dedicated to global health equality

North Carolina School of Science and Mathematics – Durham, NC   Aug 2016-May 2018
- GPA 5.60; Scores: 800 on SAT Subject Tests for Math 2, Physics, and Chemistry, 1580 on SAT
- President of Math Club & Chess Club; Science Olympiad Captain 2017-2018; Ultimate Frisbee Player; HOSA Member

Honors and Awards
- Top 8 in North America in the 2020 P&G CEO Challenge
- Participant in the 2018 Putnam Exam, score of 22; Honorable Mention in the 2018 International Math Modeling Contest
- Part of the winning team in the 2018 Carolina Data Challenge and runner-up team in 2019

Global Experience – Stockholm, Sweden   May-June 2019
Study Abroad
- Learned discrete mathematics in Stockholm while acquiring skills in communication, risk-taking, and adaptability

EXPERIENCE

Capital One – McLean, VA   Jun 2020 – Aug 2020
Business Analyst Intern
- Analyzed data sets to perform product evaluation and outline a plan to ramp spend from the B2B space

University of North Carolina Chapel Hill – Chapel Hill, NC   Jan 2019 – present
Student Research Assistant
- Testing OCT devices while investigating the elasticity of tissue in airways, performing both data analysis and image processing in MATLAB with the intent of transitioning to real-time processing

MyChessTutor – Chapel Hill, NC   Jan 2019 – Sep 2019
Chess Instructor
- Planned lessons for students (all ages/skill levels) and taught them via video chat and a live analysis board

Numerade – Charlotte, NC   Jun 2019 – Aug 2019
Educator
- Developed short educational videos for students to view for help with textbook questions

North Carolina School of Science and Mathematics – Durham, NC   Aug 2017 – May 2018
Leadership: Attaché
- Networked with students, parents, and alumni to gain funds for the school's foundation

Duke University – Durham, NC   Jun 2017 – Feb 2018
Researcher
- Worked in the Gong Lab at Duke, built two fluorescent microscopes, took images targeting individual neurons in zebrafish brains upon stimulus, and identified individual neurons using MATLAB

PROJECTS

HackNC– SafeWallet   October 2019
1st prize project at HackNC
- Created an app which allows parents to manage children's funds and spending by allocating money usage
- https://devpost.com/software/test-2ehay7

North American Computational Linguistics Olympiad   April 2018
9th place in the North American Contest, 1st US Alternate for International Contest
- Solved linguistics problems in obscure foreign languages or fictional languages with only the use of logic

High School Mathematics Contest in Modeling – Designed an Olympic-caliber ski resort   November 2017
One of 8 Outstanding Papers in Contest; One of 3 for the Ski Resort Problem
- Used math modeling, ski resort rankings, and geographical data to design an Olympic-caliber ski resort
- https://drive.google.com/file/d/1jlHymxO41OJQRaznEE-fWdsngv5PxVJZ/view?usp=sharing

ADDITIONAL INFORMATION

- Skills: Problem-Solving, Quick Learning, English Fluency, French Proficiency, Gujarati Proficiency, Python, MATLAB, Java, SQL, Excel/Office, Logic, Teamwork, Teaching, Research
- Relevant Courses: Mechanics, Electromagnetism/Quanta, Linear Algebra, Discrete Math, Differential Equations, Multivariable Calc., Probability, Graph Theory, Complex Systems, Math Modeling, Networks, Scientific Programming, Organic, Materials, and Analytical Chemistries, Neuroscience, Genetics, Biochemistry, Fundamentals of Programming
- Received an audition for the 2020 College Jeopardy Championship