Spandan Das

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EDUCATION

2017 - 2021

Thomas Jefferson High School for Science and Technology (TJHSST), Alexandria, VA
GPA: 4.50/4.00 (12th Grade), SAT: 1590/1600
Relevant Coursework: Artificial Intelligence, Computer Vision, Machine Learning, Parallel Computing, Probability Theory, Concrete Math, Multivariable Calculus, Linear Algebra

EXPERIENCE

JUNE – AUGUST 2020

NASA Goddard Space Flight Center, Greenbelt, MD
Paid Summer Intern

- Built machine learning models trained on data from NASA's Global Precipitation Measurement mission's Core Observatory Satellite to classify precipitation type
- Presented project to Climate and Radiation Lab scientists
- Showcased research at American Geophysical Union international conference (December 2020)

JUNE – AUGUST 2019

University of Virginia, Charlottesville, VA
Student Researcher

- Used web-scraping and machine learning to predict likelihood of premium subscription purchase for TV streaming platform
- Worked with UVA Professor Natasha Foutz and grad student

2018 – 2021

Intermediate & Senior Computer Teams, Alexandria, VA
Captain (Int: 2019-20, Sen: 2020-21)

- Created and delivered weekly lectures to underclassmen about competitive programming
- Wrote problems for internal contests and chose teams for travel competitions

2017 – 2021

Varsity Math Team, Alexandria, VA
Travel Contest Representative, Lecturer

- Represented school at collegiate math competitions (Duke Math Meet, American Regional Math League - Penn State, Carnegie Mellon Informatics and Mathematics Competition)
- Volunteered at 2019 MATHCOUNTS Chapter Competition - proctored and graded tests

AWARDS

- 2019, 2020 AIME Qualifier (2019 AMC 10 Honor Roll, 2020 AMC 12 Honor Roll)
- USA Computing Olympiad (USACO) – Gold Division
- Abstract Acceptance for Presentation at American Geophysical Union Fall Meeting – Dec. 9, 2020
- 2019 VCU High School Programming Competition – 1st place team
- 2017-2019: American Computer Science League All-Stars (international) – 1st place individual (perfect score), 4th place team

SKILLS & PROJECTS

Programming/Computer Skills: Java, Python, C, C++, LaTeX, Linux, Mathematica
Projects: Deep Learning Skin Cancer Diagnosis, Sudoku Solver, Crossword Puzzle Generator, Tetris AI, Othello AI, Coin Value Detector (Canny Edge Detection), Substitution Cipher Decoder (Genetic Algorithm)