NEEL JAIN

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EDUCATION

Computer Science PhD Student | 2021 - Present
University of Maryland, College Park | College Park, MD
- GPA: 3.75; Advisor: Prof. Tom Goldstein
- Selected Graduate Classes: Foundations of Deep Learning; Advanced Numerical Optimization; How and Why Artificial Intelligence Answers Questions

B.A, Honors in Mathematics | 2015 - 2019
Williams College | Williamstown, MA
- Thesis: Expanding Zero-forcing to Multi-color Forcing in Graphs
- Sigma Xi Honors Society; Dean's List last two years; Varsity Men's Squash

EMPLOYMENT

Teaching Assistant, University of Maryland, College Park | September 2021 - Present
Introduction to Data Science, Professor John Dickerson and Jose Calderon | College Park, MD

Data Scientist Senior Consultant, Booz Allen Hamilton | July 2020 - April 2021
Strategic Innovation Group, Analytics | Washington, DC
- Led efforts to create math models such as agent-based models and simulations like Monte Carlo in python and excel for various different analyses and studies including program evaluations for DoD OSD CAPE
- Built a Flask webapp using HTML, CSS, and JS to display various analyses of a curated dataset

Data Scientist Consultant, Booz Allen Hamilton | July 2019 - July 2020
Strategic Innovation Group, Analytics | Washington, DC
- Built an end-to-end audio analysis pipeline for an app in Dart/Flutter using Tensorflow
- Helped build a data pipeline from google trends to a S3 bucket via a cron job for COVID-19 data lake

Summer Games Internship, Booz Allen Hamilton | June 2018 - August 2018
Strategic Innovation Group, Analytics | Washington, DC
- Analyzed spatial data through QGIS's python script runner to create shapefiles for the RShiny front-end

Teaching Assistant, Williams College | September 2016 - December 2016
Introduction to Mechanics, Professor William Wootters | Williams College, Williamstown, MA

RESEARCH EXPERIENCE

Thesis, Williams College | September 2018 - May 2019
Graph Theory, Professor Pamela Harris | Williamstown, MA

Research Intern, Salk Institute For Biological Studies | May 2017 - August 2017
Computational Biology, Edward Stites Lab | San Diego, CA

PUBLICATIONS

Multi-color Forcing in Graphs; *Graphs and Combinatorics* | June 2020

LEADERSHIP, CERTIFICATIONS, and AWARDS

Outstanding Graduate Teaching Assistant Award Recipient | January 2021
Dean's and Chair's Fellowship | September 2021
Quantum Algorithms for Cybersecurity, Chemistry, and Optimization Certificate, MIT xPRO | April 2020
Introduction of Quantum Computing Certificate, MIT xPRO | February 2020
Foundations of Natural Language Processing Certificate, NVIDIA | December 2019
Foundations of Computer Vision Certificate, NVIDIA | October 2019
Minority Student Athlete Advisory Committee, Gaius C. Bolin Chapter, Williams College | 2018-2019

SELECTED SOFTWARE LANGUAGES/TOOLS/LIBRARIES

Python; Pytorch; Pandas; Numpy; Scikit-Learn; NLTK; Spacy; Tensorflow; Keras; Docker; Java