

# Anh Ngo

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## EDUCATION

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### Haverford College

Haverford, PA

*B.S. Candidate, Computer Science & Mathematics ; GPA: 3.95/4.0*

*Expected May 2021*

**Relevant Coursework:** Data Structures, Machine Learning, Analysis of Algorithms, Differential Geometry, Principles of Programming Languages, Linear Optimization, Theory of Computation

## WORK EXPERIENCE

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### Teaching Assistant

September 2018 - Present

*Haverford College, Computer Science & Math Departments*

*Haverford, PA*

- Holding TA hours and grading lab assignments for 35 students in Machine Learning course
- Tutoring Linear Algebra and Multivariable Calculus to around 20 students
- Guiding students through mathematical proof-writing process at the Writing Center

### Software Engineering Intern, hackNY Fellow

June 2020 - August 2020

*Major League Hacking*

*Remote*

- Added testing to scikit-learn ensuring estimators remain invariant under inputs with varying sample orders
- Corrected the miscalculations of variance in scikit-learn's Gaussian process module, which affected at least 5 to 10 users on Github Issue tracker
- Published tutorials instructing users to create custom kernel compatible with scikit-learn's Gaussian process

### Research Assistant

September 2019 - May 2020

*Advisor: Sorelle Friedler. Dark Reaction Project*

*Haverford, PA*

- Developed interpretability methods for machine meta-learning algorithms, allowing users to better understand the cause of the algorithms' decision
- Redesigned the research dashboard front-end with Plotly/HTML/CSS, enabling users to visualize chemical reaction data and monitor the pipeline metrics easily

### Data Assimilation Intern, SIParCS Program

June 2019 - August 2019

*National Center for Atmospheric Research, Data Assimilation Research Section*

*Boulder, CO*

- Restructured climate and forecast observation data into netCDF files to enhance parallel I/O, reducing the runtime by 50%-80% depending on the input size
- Converted the legacy re-analysis MATLAB code to a point-and-click user interface with Python/C++, making the re-analysis of climate model more intuitive and easier for the scientists

## PROJECTS

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### Dibs

February 2019 - May 2019

*An online platform that facilitates the exchange of reusable items in college communities*

- Implemented user interface components with HTML/CSS
- Maintained and tested the core Django codebase for the Dibs platform leading up to the campus-wide launch
- Gained more than 300 sign-ups and over 100 items posted over two weeks after the launch

### NeckUp, Second Place - Philly Tech Startup Weekend

September 2018

*An interactive Android app that helps correct people's neck posture while they use their phone*

- Utilized motion sensors and background processes to alert users of their bad neck posture
- Presented to Techstars judges and won the second place

## SKILLS

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- **Programming:** Python, MATLAB, Java, C++
- **Technology:** Git, Linux, Django, Qt, scikit-learn, Tensorflow, Android
- **Language:** English, Vietnamese, Intermediate Spanish