# Cynthia Dong

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## EDUCATION

**University of North Carolina at Chapel Hill**                                                                **May 2021**
B.S. in Computer Science, B.A. in Peace, War and Defense, Minor in Chemistry                **Cumulative GPA:** 3.82
**Related Coursework:** Data Structures, Differential Equations, Algorithms and Analysis, Artificial Intelligence, Computer Security Concepts, Data for Earth Science, BioAlgorithms, Linear Algebra, Internet Services & Protocols
**Honors:** Honors Carolina, Buckley Public Service Scholar, Dean's List (all semesters), Phi Beta Kappa

## SKILLS

**Programming Languages**: Python, Java, C#, Pandas, Tensorflow, Salesforce, Javascript, Typescript, Angular, Mathematica, C, MIPS
**Languages**: Intermediate Spanish, Conversational Chinese

## PROJECTS

### Modeling COVID-19 with Machine Learning | COMP 590 | March – May 2020
- Gathered, cleaned, and processed thousands of datapoints on COVID-19, demographics, and weather patterns using **Pandas**.
- Trained, optimized **Scikit-learn random forest** and **gradient boosting models** to identify drivers of COVID-19 transmission.

### Disaster Alert | Pearl Hacks | 2$^{nd}$ Place Best Use of Google Cloud | February 2020
- As a team, combined **Bandwidth's API** with our custom **Python Django** backend API to create a disaster relief and mitigation system to text subscribers with relevant information.
- Parsed text responses, queried from **Firebase**, with **Google Cloud NLP**, matching aid donors and requesters.
- Created an **AWS-hosted Javascript** we app to register for the text service, storing user data in **Google Firebase**.

### Campus Watch | Pearl Hacks | BNY Mellon Best User-Driven Hack | February 2019
- Web app, written with **Javascript, HTML, CSS** that allows users to geographically pin instances of hate speech, assault, and vandalism in order to elevate the challenges that minorities and women face daily.
- Connected the UI to **Google Firebase**, connected to and customized the map with the **Google Maps API**.

## WORK EXPERIENCE

### Global Markets Summer Technology Analyst | Credit Suisse | Morrisville, NC (Remote)          July 2020 – August 2020
- As a team, created a **full stack** service which, in production, will help traders save > *45 hours a week* by automating stock lending processes, using **SQL** to query stock offerings and a **C# SignalR** hub to serve recommended stocks to an **Angular** UI.
- Through meetings with traders and team members, wrote business logic to efficiently sort stock offers.
- Presented and demoed project to Securities Lending desk and managing directors at Credit Suisse.

### Neural Engineering Laboratory | Research Technician | Chapel Hill, NC          December 2019 – Present
- Used **Tensorflow** to code a **real-time GPU-based** motion correction **Keras** model and pipeline for voltage movies, increasing processing speed by two orders of magnitude for a paper on online signal extraction from neurons (Submitted to NeurIPS).
- Coded queued, threaded real-time capture of mouse behavior in **Python**, coordinating times with a microscope setup.

### University Desk Reporter | The Daily Tar Heel | Chapel Hill, NC          August 2018 - Present
- Interview sources, from deans to students, and represent their views with honesty and accuracy.
- Write and investigate compelling and informative articles for the UNC community on deadline, working closely with editors.

### Developer Intern | nCino | Wilmington, NC          May 2019 - August 2019
- Learned **Salesforce, Apex, Visualforce,** and **Angular** to create pages displaying complex cloud-based loan information.
- Analyzed and planned out product designs individually and at daily meetings, working as part of a scrum team.

### Intern | Public Impact | Chapel Hill, NC          May 2018 - August 2018
- Analyzed detailed written data from around 15 charter applications totaling around 4500 pages per day.
- Compiled an end-of-summer project on the use and history of Big Data in Google for the President and VP.

## EXTRACURRICULARS

### Graphics Director | HackNC & Afropix | UNC-Chapel Hill          March 2019 - Present
- Create cool graphics for posters, banners, t-shirts, stickers, and sponsorship packets with **Adobe Illustrator**.
- Communicate and work with other directors and club members to give hackers the best experience possible.

### Site Lead | Technology Without Borders | Durham, NC          August 2018 - Present
- Guide 5th and 6th graders at the Emily K. Center through Hour of Code challenges for an hour, weekly.
- Explain coding concepts clearly while encouraging students to see tech as a career path within their grasp.