

## EDUCATION

**The University of North Carolina at Chapel Hill**, Chapel Hill, NC May 2027

*B.S. Computer Science., B.S.P.H Biostatistics (Assured Enrollment), Honors Carolina Scholar*

- ❖ **Activities:** Kappa Theta Pi Professional Technology Organization, UNC Carolina Analytics & Data Science Club, UNC CS + Social Good Education Team, AI@UNC Club, UNC Club Tennis, Asian American Students Association

**Upper Saint Clair High School**, Pittsburgh, PA August 2019 - June 2023

*MYP/IB Certification, GPA: 3.96/4.00, WGPA: 4.83/4.88*

- ❖ **Honors:** National Honor Society, National Merit Commended Scholar, AP Scholar with Distinction

## TECHNICAL SKILLS

**Programming Languages/Technologies:** Python, Java, Javascript, R, SQL, HTML & CSS, XML, Pandas, Biopython, scikit-learn, Git/GitHub, Swift

## PROJECTS

**Predicting High-Risk Wildfire Zones | Carolina Data Challenge Datathon** October 2023

- Developed a successful machine learning model to identify the primary factors influencing wildfire progression, while also leveraging Tableau to create impactful and visually compelling data visualizations.
- Collaborated with a team of 4 students to extract and clean values from the 2000 - 2010 US Wildfire dataset.
- Collaborated with a team of 4 students in data cleaning efforts for a dataset with 10,000+ values.
- Designed a risk-assessment model for wildfires with a gradient boosting regressor utilizing Scikit-Learn.

**Tennis Program Website | Upper Saint Clair High School** January 2023 - May 2023

- Developed a comprehensive website to improve information management for the high school tennis program.
- Utilized JavaScript to create dynamic and interactive features to provide updates on match schedules, player statistics, and team news.
- Implemented an SQL database to efficiently store and retrieve data, such as organizing match results and team data.
- Created a user-friendly design through HTML and CSS to help students easily navigate the website.

**Computational Identification of Lactic Acid Bacteria | Carnegie Mellon University** August 2022 - June 2022

- Implemented computational algorithm using open-source software packages, Python, Biopython, and the Ribosomal Database to build a comparison pipeline that could differentiate between various bacterial strains of the 16S rRNA subregion of DNA fragments.
- Created a new streamlined process for identifying lactic acid bacteria for future research in probiotics and bacterial identification.

## LEADERSHIP EXPERIENCE

**Computer Programming Tutor | Lead Instructor | Pittsburgh, PA** November 2021 - November 2022

- Taught intermediate to advanced concepts in Python programming and mathematics to middle-school students.
- Set up a middle school program that provided students with access to technology, computers, and skills to analyze hands-on coding problems.

## WORK EXPERIENCE

**Administrative Support Specialist | Tennis and Golf Center | Pittsburgh, PA** February 2023 - August 2023

- Provided technical and administrative support to the tennis and golf departments of the Upper St. Clair Township.
- Scheduled reservations for customers and managed administration computer systems, including inputting and updating member information into the township database.