MATTHEW ARDIZZONE

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EDUCATION

Bachelor's of Computer Science at UNC—Chapel Hill   **Graduated in May 2021**
- *Major GPA: 3.880.   Overall GPA: 3.834.*
- Major Coursework: Computer Architecture, Data Structures, Intro Machine Learning,
  Algorithm Analysis, Modern Web Programming, Calculus, Discrete Math, Linear Algebra

Master's in Computer Science at Cornell Tech   **Expected Graduation, May 2022**
- Courses began August 25, 2021.
- Security and Privacy, VR/AR, Design of Interactive Devices, Startup Studio

WORK

Statistical Mouse UTR Analysis   **July 2020 – August 2021**
- Designed analytical code on untranslated regions of mice RNA using Python, Pandas and
  Microsoft Excel, to determine the effect of a degrading protein in the laboratory of M.D.,
  Ph.D. Silvia Ramos and with mentorship from Dr. Alain Laederach.

Software Engineering Internship with ARA   **Jan 2022 – Aug 2022**
- Will implement new software features and bug fixes. Will participate in regular sprint meetings and
  through ARA's agile processes, participate in team meetings focused on feature design.

Computer Science Tutor with Varsity Tutors   **Feb 2021 – May 2021**
- Tutored high school students in computer science to aid online education during the pandemic.

PROJECTS

Sight to Sound Project (High School Research Class)   **Sep 2016 – May 2017**
- Independently developed a prototype device using fractals to convert visual to auditory
  information for the visually impaired to "see" through sensory substitution ([Learn more](#)).

Ace of Clubs   **May 2021 – August 2021**
- Independently developed a golfing video game featuring a card play mechanic using the Unity
  Game Engine, including programming, level design, sound design, UI, and animation.
- See a working demo [here](#).

SKILLS

Programming   Java, C, C#, Python, Assembly, Bash, HTML, CSS, JavaScript, MATLAB, SQL, Git.
Applications   Unity Game Engine, Blender, Adobe Premiere, Adobe Photoshop, Adobe After Effects,
                     Adobe Illustrator, Audacity, FL Studio, Paint.NET, Microsoft Office Suite.

VOLUNTEER

Volunteer Saxophone Teacher, Musical Empowerment   **Sep 2018 – May 2020**
- Weekly, 40-minute, one-on-one music lessons and mentorship for a 7-year-old child.
- Musical Empowerment provides free lessons, instruments, music books and performance
  opportunities for 125 children in the C.H.-Carrboro area from underprivileged families.

Volunteer Swim Teacher, Dive In! Chapel Hill   **Sep 2018 – May 2020**
- Weekly, 60-minute swimming sessions with 2 middle school aged children.
- Dive In! offers free swim lessons to children from families in the Research Triangle who are
  unable to afford swim lessons or have language barriers preventing access.

LEADERSHIP

Learning Assistant, Computational Photography   **Spring Semester 2021**
- Hosted weekly 2-hour office hour sessions, answered students' questions on Piazza, and
  provided homework feedback to facilitate online learning during the pandemic.

President of the Embracing Dental Research Journal Club   **Sep 2020—May 2021**
- Selected and distributed dental journal articles and led half-hour long discussion sections
  twice per month for 2 semesters. Improved club attendance from 5 members to over 20.