BIANCA CAPRETTA

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ACADEMICS

Tufts University *Medford, MA*   Expected Graduation: May 2019
- <u>Majors</u>: Computer Science Major and Cognitive & Brain Sciences Major (CBS) with a Music Minor
- <u>Relevant Courses</u>: Programming Languages, Machine Structure & Assembly Language, Web Programming
- <u>Dean's List</u>: Fall 2015, Spring 2016, Fall 2016

WORK EXPERIENCE

Microsoft *Redmond, WA*   May – August 2017
<u>Explorer Intern</u>
- Redesigned the navigation feature to improve discoverability on Microsoft Sway as a Program Manager
- Developed a new Table of Contents experience for the user interface as a Software Engineer with ASP.NET; used a tech stack on client-side to implement accessibility features, data-driven numbers, and animation
- Coded flighting to catch the feature's trigger in experiments; collected and analyzed telemetry in production

Tufts University EECS Department *Medford, MA*   January 2017 – Present
<u>Teaching Assistant</u>
- Taught multiple computer laboratories weekly for intermediate programming students in Data Structures
- Graded homework and provided individual assistance with class homework and projects during office hours

Center for Engineering Education and Outreach (CEEO) *Medford, MA*   June – August 2016
<u>Software Engineer Intern</u>
- Built an IFTTT event-driven programming interface for children to better understand concurrency
- Programmed the GrovePi and EV3 on IoT to exchange info between its tactile sensors and Twitter posts
- Created an inventory system for the office from scratch in Javascript using Google Spreadsheet's Script Editor

LEADERSHIP & ACTIVITIES

Music Cognition Research *Medford, MA*   September 2017 – Present
- Researched if a musical synchronous activity between two people leads to an increase in intentional binding
- Studied background research on joint music making, group cohesion, sense of agency, and self-other blurring
- Coded experiment in Javascript to track intentional binding on EvoThings using Android development tools

Shir Appeal A Cappella *Medford, MA*   May 2016 – May 2017
<u>Music Director</u>
- Led rehearsals seven hours per week, ran auditions, organized song selection, edited and arranged songs
- Recorded, directed, and produced the studio album, *Perspective,* nominated for three Contemporary A Cappella Recording Awards

Warm One Body *San Francisco, CA*   October 2012 – June 2015
<u>Chief Executive Officer</u>
- Ran a 501(c)(3) non-profit organization to provide hats, gloves, and socks to homeless people during winters
- Fundraised $17,000 in three years to provide over 2,100 people with 6,300 articles of clothing

SKILLS AND PROJECTS

- <u>Coding Languages</u>: C++, C, C#, Typescript, Javascript, HTML/CSS, Python, Java
- <u>Software Programs</u>: Visual Studio, .NET Framework, Google Apps Script, SPSS, Microsoft Excel
- <u>Music Software</u>: Logic, MuseScore, Noteflight, & GarageBand
- <u>Relevant Projects</u>: Universal Virtual Machine, Security Vulnerability, Search Engine, Image Compression, Encryption and Decryption, Budget Manipulator, Simulation of Amazon and Uber, Memelord