

BIANCA CAPRETTA

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ACADEMICS

Tufts University Medford, MA

Expected Graduation: May 2019

- Majors: Computer Science Major and Cognitive & Brain Sciences Major (CBS) with a Music Minor
- Relevant Courses: Programming Languages, Machine Structure & Assembly Language, Web Programming
- Dean's List: Fall 2015, Spring 2016, Fall 2016

WORK EXPERIENCE

Microsoft Redmond, WA

May – August 2017

Explorer Intern

- 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

Teaching Assistant

- Taught multiple computer laboratories 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 (CEEEO) Medford, MA

June – August 2016

Software Engineer Intern

- 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

- Worked under Aniruddh Patel to test if a synchronous tapping activity with music leads to self-other blurring
- Studied background research on joint music making, group cohesion, sense of agency, and intentional binding
- Designed and coded experiment to track synchrony and perceived time between tap and resulting sound

Shir Appeal A Cappella Medford, MA

May 2016 – May 2017

Music Director

- 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

Chief Executive Officer

- 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

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