BIANCA CAPRETTA

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Academics

Tufts University *Medford, MA*   *Expected Graduation: May 2019*
Studies: Computer Science Major and Cognitive & Brain Sciences Major with a Music Minor (3.7 GPA)
Relevant Courses: Web Programming, Human Computer Interaction, Data Structures, Cyber Security,
Algorithms, Programming Languages, Machine Structure & Assembly Language, Computational Theory

Work Experience

LinkedIn | Software Engineer Intern *San Francisco, CA*   *May-Aug 2018*
- Implemented the front-end of the quick company association feature on Campaign Manager in Ember.js
- Designed API and front-end for quick company page creation feature to mitigate the number of users
  leaving the campaign creation flow

Microsoft | Explorer Intern *Redmond, WA*   *May-Aug 2017*
- Redesigned and developed a navigation feature to improve discoverability on Microsoft Sway with ASP.NET
- Used a tech stack on client-side to implement accessibility features, data-driven numbers, and animation
- Coded flighting to catch triggered feature in experiments; collected & analyzed telemetry in production

Tufts University | Music Cognition Research *Medford, MA*   *Sept-Dec 2017*
- Researched whether musical synchronous activity between people leads to increase in intentional binding
- Studied joint music making, group cohesion, sense of agency, and self-other blurring phenomena
- Coded three mobile apps to encompass experiment in Javascript to track intentional binding on EvoThings

Tufts University | Data Structures Teaching Assistant *Medford, MA*   *Jan-Dec 2017*
- Led weekly computer labs for intermediate programming students in Data Structures
- Graded homework and provided individual assistance with homework and projects during office hours

CEEO | Software Engineer Intern *Medford, MA*   *June-Aug 2016*
- Built an IFTTT event-driven programming interface for children to better understand concurrency
- Programmed the GrovePi and EV3 on IoT to exchange info between tactile sensors and Twitter posts
- Created an inventory system for the office in Javascript using Google's UI and Apps Script for developers

Projects

Textbook Exchange Network | Project Manager *Medford, MA*
- Led team of twelve students to develop a user interface for the Textbook Exchange Network in the Boston
  area allowing students to buy and sell textbooks at an affordable price
- Built front-end using React framework, back-end using Django, and database using PostgreSQL

Budget Manipulator *Medford, MA*
- Created a multi-faceted budget sheet with Google Sheets' API allowing one to flex and manage salaries
- Triggers on edit to adjust percent allocated per salary or yearly rate while maintaining overall budget

Skills

Programming Languages: C/C++, Python, Javascript, HTML, CSS, C#, Typescript, PostgreSQL, Java
Tools: Ember.js, React, Django, Node.js, .NET Framework, Google Apps Script, Git, Sketch, Atom, vim
Personal: Jazz singing, Jewish a cappella, classical piano, radio host, tennis back-hand, hiking, puns/jokes