

BIANCA CAPRETTA

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EDUCATION

Tufts University *Somerville/Medford, MA*

Graduated May 2019

BS, Computer Science and Cognitive & Brain Sciences, Minor in Music

SKILLS

Languages: Python, Java, C/C++, Javascript, HTML, XML, CSS, C#, Typescript

Frameworks: React, Django, PostgreSQL, Ember.js, Node.js, ASP.NET, Bootstrap

Tools: Google Apps Script, Git, GitHub, Trello, Sketch, IntelliJ, Atom, VSCode, vim, EvoThings

EXPERIENCE

Spotify | Backend Engineer Intern *Boston, MA*

June-Aug 2019

- Implemented new features for two new playlists, "On Repeat" and "Repeat Rewind", improved code quality, added unit and integration tests, fixed bugs in Java, and ran a test to 6% of users
- Collaborated with Product and Data Curation teams to verify the playlists' heuristic matched listening behavior
- Developed and designed the architecture for a new playlist set, "Liked Songs"; clustered users' listening history into liked tracks per quarter (i.e. *Your Spring 2018 Liked Songs*)

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
- Implemented accessibility features, data-driven numbers, and animation on client-side
- Coded mechanism to track clicks in experiments; collected & analyzed telemetry in production

Tufts University | Music Cognition Researcher *Medford, MA*

Sept-Dec 2017

- Researched whether musical synchronous activity between people leads to an increase in intentional binding
- Studied joint music making, group cohesion, one's sense of agency, and self-other blurring phenomena
- Coded three mobile apps for experiment in Javascript to track intentional binding on EvoThings

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 Sheets' UI and Apps Script for developers

PROJECTS

Textbook Exchange Network | Project Manager *Medford, MA*

- Led a team of nine engineers and two designers to develop a scalable and secure database and user interface for the Textbook Exchange Network, allowing students to buy and sell used textbooks among universities in Boston
- Built the front-end with the React framework, back-end with Django, and database with 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