EMMA OBERSTEIN

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EDUCATION

Dartmouth College, Hanover, NH   **June 2018**
Bachelor of Arts, Major in Computer Science   **GPA 3.81/4.0**
Relevant Coursework: *Problem Solving Via Object Oriented Programming, Discrete Mathematics in Computer Science, Algorithms, Software Design and Implementation, Smartphone Programming, Human Computer Interaction, Linear Algebra*
Honors/Awards: Neukom Scholar, Presidential Scholar, Second Honors Group
Citations for Academic Excellence in *Introduction to Programming and Computation* and *Smartphone Programming*

TECHNICAL SKILLS

Programming: HTML, CSS, Javascript, Java, C, C#, Python, Android Development, Swift, MySQL
Operating Systems: Unix/Linux
Design: Photoshop, Maya, Muse

EXPERIENCE

Digital Arts, Leadership, & Innovation Lab, Hanover, NH   **September 2015 - June 2016**
Website Developer
- Built a prototype for DartDiagnose, a web application that assists doctors in diagnosing their patients with rare Neurometablic diseases.
- Developed an algorithm in Javascript to rank disease probability based on user-inputted symptoms.
- Collaborated with doctors to polish the user flow and design of the prototype application.

HackDartmouth, Hanover, NH   **September 2015 - June 2016**
Director of Technology
- Maintained and updated the official website for HackDartmouth, Dartmouth College's annual student-run Hackathon.
- Taught an "Introduction to Website Development" workshop focusing on the basics of HTML, CSS and Bootstrap.
- Mentored competing students in website development, android development, iOS development and Visual Studio.

Department of Computer Science, Dartmouth College, Hanover, NH   **March 2016 - June 2016**
Smartphone Programming Teaching Assistant
- Assisted professor with updating the course curriculum based on previous years.
- Graded and gave feedback on Android application laboratory assignments for students.
- Answered relevant questions and helped assess student errors on Piazza, an online question and answer service.

PROJECTS

WeatherWear   **February 2016 – March 2016**
Designed and implemented an Android application that makes appropriate outfit suggestions based on the weather:
- Implemented a MySQL database to save information regarding a user's closet.
- Integrated alarms to allow users to be given an outfit to wear when they choose to wake up.
- Developed an algorithm to display and allow users to edit an appropriate outfit based on season, weather, and availability.
- Allowed users to plan for vacations by creating outfits days in advance for their given destination.

Search Engine   **May 2015**
Designed and implemented a search engine in C consisting of three main components:
- The crawler component crawls web files given a seed URL.
- The indexer component creates an inverted index of words per HTML page.
- The query component ranks and displays URLs given a search terms from a user.

ADDITIONAL ACTIVITIES

Dartmouth CoderDojo, Windsor, VT   **January 2015 - June 2016**
Volunteer
- Mentored local middle/high school students with a passion for technology.
- Assisted students with various projects including Scratch games, website design, and Raspberry Pi arcade system.

Kappa Delta Sorority – Eta Xi Chapter, Hanover, NH   **March 2016 – June 2016**
Vice President of Finance
- Managed a $105,000 budget and handled all aspects of the sorority's finances.