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: *Algorithms, Problem Solving Via Object Oriented Programming, Discrete Mathematics in Computer Science, Software Design and Implementation, Smartphone Programming, Human Computer Interaction, Website Development*
Honors/Awards: 3 Citations for Academic Excellence, Neukom Scholar, Presidential Scholar, Honors Group

TECHNICAL SKILLS

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

EXPERIENCE

Digital Arts, Leadership, & Innovation Lab, Hanover, NH   **September 2015 - Present**
Website Developer
- Built a prototype for DartDiagnose, a web application that assists doctors in diagnosing patients with rare 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 - Present**
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 – Present**
Teaching Assistant
- Gave feedback for and graded student assignments in *Smartphone Programing* and *Software Design and Implementation*.
- Held office hours and answered relevant questions on Piazza, an online question and answer platform.

Department of Computer Science, Dartmouth College, Hanover, NH   **June 2016 – Present**
Presidential Scholar Research Assistant
- Contributed to the early stages of a mobile health obesity wellness intervention for elderly obese adults.
- Developing an improved step and distance counting component in C for Amulet, a novel wrist-wearable device for mobile health applications with high security, efficiency and battery life.

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.

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 - Present**
Co-Chair
- 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 – Present**
Vice President of Finance
- Managed a $105,000 budget and handled all aspects of the sorority's finances.