

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 Neurometabolic 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.