

EMMA OBERSTEIN

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EDUCATION

Dartmouth College, Hanover, NH

June 2018

B.A. in Computer Science

GPA 3.83/4.0

Relevant Coursework: *Algorithms, Object Oriented Programming, Discrete Mathematics, Software Design and Implementation, Website Development, Smartphone Programming, Human Computer Interaction*

Honors/Awards: 4 Citations for Academic Excellence in Computer Science, Neukom Scholar, Presidential Scholar, Honors Group

TECHNICAL SKILLS

Programming: HTML/CSS, JavaScript, Java, C, C#, Python, SQL, Android Development, ASP.NET, Swift

Operating Systems: Mac OS X, Unix/Linux

Design: Photoshop, Maya, Muse

EXPERIENCE

Applied Visions, Inc., Northport, NY

September 2016 - Present

Software Engineering Intern

- Work within a small team to deliver an enhanced version of Comic-BEE, a software commissioned by the Department of Homeland Security that allows educators to use branching choose-your-own-adventure comics to teach kids, the workforce and the army about cyber security threats.
- Use the ASP.NET MVC Entity Framework to integrate new front-end and back-end features and correct previous system bugs as assigned by project manager.

HackDartmouth, Hanover, NH

September 2015 - Present

Director of Technology

- Maintain the official website for HackDartmouth, Dartmouth College's annual student-run hackathon.
- Teach an "Introduction to Website Development" workshop on HTML, CSS and JavaScript.
- Mentor competing students in website development, Android development, iOS development and Visual Studio.

Digital Arts, Leadership, & Innovation Lab, Hanover, NH

September 2015 - Present

Full-Stack Website Developer

- Prototyped 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.

Department of Computer Science, Dartmouth College, Hanover, NH

June 2016 – September 2016

Presidential Scholar Research Assistant

- Contributed to the early stages of a mobile health obesity wellness intervention for elderly obese adults.
- Improved step and distance counting component in C for Amulet, a wrist-wearable device for mobile health applications with high security, efficiency and battery life.

Department of Computer Science, Dartmouth College, Hanover, NH

March 2016 – August 2016

Teaching Assistant

- Graded student assignments in *Smartphone Programming* and *Software Design and Implementation*.
- Held office hours and answered relevant questions on Piazza, an online question and answer platform.

PROJECTS

WeatherWear

February 2016 – March 2016

Designed and implemented an Android application that suggests appropriate outfits based on weather conditions.

Search Engine

May 2015

Designed and implemented a search engine in C consisting of a web crawler, indexer, and query handler.

ADDITIONAL ACTIVITIES

Dartmouth CoderDojo, Windsor, VT

January 2015 - Present

Co-Chair

- Mentor local middle/high school students with a passion for technology.
- Assist 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

- Manage a \$105,000 budget and handle all aspects of the sorority's finances, including budgeting, billing and reporting.