

# Sofiya Semenova

DEVELOPER & DESIGNER

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## PROJECTS

EDGAR	An online poetry
ALLAN	generator using markov
POETRY	chains and recurrent neural nets - won best AI hack at HampHack16
TRIP	An independent study
PLANNING	project focused on creating a database of accessibility and sidewalk condition data for the City of Boston
FORECAST	A program written in
MUSIC	Javascript/Max MSP to
GENERATOR	create different melodies based on the weather forecast for the week, created for my Electroacoustic Music Composition class
PLANEMATCH	Python / Django project that allows users to find others with similar interests on flights

## RELEVANT COURSES

COMPUTER SCIENCE	Database Management Systems, Operating Systems, Structure and Interpretation of Computer Programs, Theory of Computation, Artificial Life, Topics in Cognitive Science, Data Structures, Discrete Structures, Advanced Programming Techniques
PHYSICS	Electrical Engineering, Astrophysics, Modern Physics, Intro Physics Lab, Physics Laws I and II, Multivariable Calculus

## SKILLS

FLUENT IN	Java, Javascript, Python, Django, HTML/CSS, Git, Illustrator, InDesign
PROFICIENT IN	AngularJS, SQL , Scheme, Ruby

## WORK EXPERIENCE

### Software Engineering Intern @ edX

June 2016 - Present

- Improved accessibility of the edX platform for screen-reader and keyboard-only users. Python, Django, Javascript, HTML, and CSS/Sass

### Web Developer Team Lead @ Brandeis University MakerLab

June 2016 - Present

- Designed MakerLab website, as well as websites and promotional materials for several MakerLab-sponsored events

### Software Engineer @ The Western Jihadism Project

April 2015 - May 2016

- Postgres/relational schema design for archiving the evolution of Al Qaeda-inspired terrorist networks in Western States
- Created Python/Django user interface to access, search, and modify data
- Created data visualization dashboards with Google Charts

### Engineering Intern @ Onshape

June 2015 - August 2015

- Added admin tools to the Onshape web app, using AngularJS
- Expanded automated end-to-end UI tests using Protractor for AngularJS

### Teaching Assistant for Intro to Programming in Java

September 2014 - November 2014

- Held office hours and answered questions about course material
- Graded programming assignments and tests

### Web Developer and Lab Assistant @ Brandeis High Energy Physics Lab

June 2013 - August 2013

- Designed the lab website and wrote technical articles about the alignment system of the Large Hardon Collider at CERN
- Soldered and ran tests on circuit boards

## EDUCATION

### Brandeis University

September 2013 - May 2017

Expected BS in computer science with a minor in physics

## LEADERSHIP EXPERIENCE

### Microsoft Student Partner

December 2015 - Present

- Served as the Brandeis representative for Microsoft
- Ran monthly tech workshops about web development with Python/Django, principles of web design, Microsoft Hololens, and finding tech internships
- Promoted awareness of Microsoft technologies to students and faculty through workshops, on-campus events, and social media

### President of BITMAP (Brandeis' Computer Science Club) and Hackathon Organizer

September 2014 - Present

- President of Brandeis' computer science club
- Lead designer and web developer for Brandeis' hackathon, Codestellation

### Computer Science Undergraduate Department Representative

September 2015 - May 2016

- Planned and coordinated departmental events for computer science majors