

# Jackie Loven

<http://jackieloven.com>  
[jackieloven@gmail.com](mailto:jackieloven@gmail.com)

## EDUCATION

### CORNELL UNIVERSITY

BS, MATERIALS SCIENCE & ENG.  
Expected Dec. 2017

### WORCESTER POLYTECHNIC INSTITUTE

LAST YEAR OF HIGH SCHOOL  
2013 – 2014

### MASS ACADEMY OF MATH & SCIENCE

ADVANCED SECONDARY SCHOOL  
2012 – 2013

## SEE MY PROJECTS

[github.com/jLoven](https://github.com/jLoven)  
[jackieloven.com](http://jackieloven.com)

## COURSEWORK

### CORNELL

Java  
Python  
Aerosols and Colloids  
Electrical Properties of Mat'ls  
Mechanical Properties of Mat'ls  
Kinetics and Diffusion

### WPI

Physics  
Calculus

## SKILLS

### PROGRAMMING

Proficient:

Java • Matlab • HTML / CSS

Used before:

Python • JavaScript (Ext JS)  
SQL • Android

### 3D PRINTING & DESIGN

SketchUp • iMovie • GIMP  
Adobe Premiere

### TOOLS

Eclipse / IBM RSA • Interana  
Arduino • Android Studio

## PROFESSIONAL EXPERIENCE

### SONOS | DATA ANALYTICS INTERN

June 2016 – Aug 2016

- Wrote and optimized code to analyze previously unused temperature and volume data from millions of speakers (Java)
- Analyzed previously unused humidity, acceleration, and temperature data from product transportation routes
- Presented data visually to other teams (Interana)

### TRAVELERS INSURANCE | SOFTWARE ENGINEERING INTERN

June 2015 – Aug 2015

- Added backend functionality for accessing documents in database (Java, SQL)
- Added custom UI functionality for viewing a table of insurance info and seeing previous versions of documents (JavaScript)
- Created and ran unit tests for existing code, found and fixed bug in existing code (Java)

## ENGINEERING EXPERIENCE

### KLASP | JEWELRY CLASP FOR LOSS OF HAND DEXTERITY

3D-printing with embedded magnets

Designed and 3D-printed a novel magnet-based jewelry clasp for arthritic users. Presented at the 2013 Easter Seals Assistive Technology Expo. Currently in use by elderly nursing home residents.

### ZU | DEVICE FOR EASY EARPHONE STORAGE

3D-printing

Designed, 3D-printed, and sold a novel and cheap device for tangle-free earphone storage. <https://youtu.be/2cVIB-0IW54>

## RESEARCH EXPERIENCE

### CORNELL HANRATH ENERGY LAB | UNDERGRADUATE RESEARCHER

January 2016 – May 2016

Implemented genetic algorithms in MATLAB to discover and evaluate novel, more efficient solar cell designs. Publication in progress.

## OTHER PROJECTS

See [github.com/jLoven](https://github.com/jLoven), [jackieloven.com](http://jackieloven.com)

Android app for patients to contact nurses nonverbally (see site)

Desktop app to create Java enum given spreadsheet (see site)

Soft earphone attachment to better fit human ear

3D-typeface for 3D-printer to make realistic calligraphy (see site)

Over 500 hours of community service at a nursing home

## HONORS AND AWARDS

- |            |   |
|------------|---|
| 2016, 2014 | ABI Scholarship to attend Grace Hopper Conference     |
| 2015       | Microsoft Scholarship at Grace Hopper Conference      |
| 2014       | Shapeways founder endorsed beginner 3D-printing guide |
| 2013       | My Android ApplInventor manual presented at MassCUE   |