

# 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

## COURSEWORK

### CORNELL

Java

Python

Aerosols and Colloids

Electronic Properties of Mat'ls

Mechanical Properties of Mat'ls

Kinetics and Diffusion

### WPI

Physics

Calculus

## SKILLS

### PROGRAMMING

Proficient:

Java • MATLAB

Worked with:

Python • JavaScript (Ext JS)

SQL • Android • HTML / CSS

### 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 multithreaded code to analyze previously unused temperature and volume data from millions of speakers (Java)
- Analyzed previously unused shipping humidity, acceleration, and temperature data and made significant conclusions
- Delivered data 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 extensive data with version tracking (JavaScript)
- Created and ran unit tests for existing code, found and fixed bug in existing code (Java)

## 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.

## ENGINEERING EXPERIENCE

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

Designed and 3D-printed a novel magnet-based jewelry clasp for arthritic users. Presented at the 2013 Easter Seals Assistive Technology Expo.

### ZU | DEVICE FOR EASY EARPHONE STORAGE

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

## OTHER PROJECTS

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

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

Created desktop app to create Java enum given spreadsheet (see site)

Designed earphone attachment to better fit human ear

Repurposed a 3D-printer to draw realistic calligraphy (see site)

Volunteered for over 500 hours at a nursing home