

# Carolyn Saund

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## EDUCATION

### TUFTS UNIVERSITY

BSC IN COMPUTER SCIENCE, BRAIN AND COGNITIVE SCIENCE  
May 2015 | Somerville, MA

### UNIVERSITY OF CANTERBURY

BS IN COMPUTER SCIENCE  
June 2013 - Jan 2014 | Christchurch, NZ  
College of Engineering  
GPA: 4.0 / 4.0

## LINKS

Github:// csaund  
LinkedIn:// carolynsaund

## COURSEWORK

### UNDERGRADUATE

Advanced Topics in Machine Learning  
Computational Models of Cognitive Science  
Stochastic Systems  
Linear Algebra  
Machine Architecture and Assembly  
Advanced Topics in Artificial Intelligence  
Programming Languages  
Computational Theory

### CONTINUING

Advanced Seminar in Cognitive Architectures  
Neural Networks for Machine Learning  
Ongoing Management Training

## SKILLS

### LANGUAGES

Over 5000 lines:  
Javascript • Python • C  
C++ • Java  
Over 500 lines:  
LISP • CSS • HTTP • R

### WORKFLOW/Frameworks

git/github • NodeJS/React • SVN •  
Unix/Linux • Jenkins/TDD • CI releases  
Stash • Phabricator/arcanist • Gradle  
MongoDB • Electron

## EXPERIENCE

### COGITO

SENIOR SOFTWARE DEVELOPER  
August 2017 - Present | Boston MA

- Originally Implemented and manage release pipeline.
- Full-stack development of Role-Based User Management (RBUM) APIs.

### JIBO

ROBOT SDK ENGINEER  
May 2015 - Dec 2016 | Boston, MA

- Employee 20(/110) Designed a series of tutorials from "Getting Started" to advanced usage still used to onboard internal and external developers.
- Architected data APIs for dev tools to manage robot sensory input from cameras and microphones.
- Implemented frontend UI and developer interfaces to build high-level skills.
- Won first company culture award for "outstanding cultural contributions."

### CHARACTER AI ENGINEER

Jan 2017 - August 2017 | Boston, MA

- Designed and implemented robotic bi-axial Emotion System and corresponding impacts on robot behavior.
- Single-handedly architected and maintained robot listening pipeline (main interface for interaction).

### SOFTWARE CONSULTANT

August 2017 - Present | Boston, MA

- Continuing work to rearchitect APIs in cloud-based architecture

### SPOTIFY

SOFTWARE ENGINEERING INTERN

May 2014 - Sep 2014 | NY, NY

- Full stack development of internal desktop application.
- Developed web APIs and GUI for music annotation tools

### TUFTS UNIVERSITY

TEACHING ASSISTANT, COMPUTER SCIENCE

Jan 2012 - Jan 2015 | Somerville, MA

- Data Structures, Machine Architecture, Machine Learning
- Taught theory and laboratory skills to students with wide range of abilities.

## PROJECTS

### DROSOPHILA

- Designed and programmed arduino "badge" with genetic algorithms for LED display to recombine when near another badge.

### THE NEURON

- Programmed LED strips around metal sculpture to respond based on microphone input, compute audio intensity threshold, and "fire" another LED strip with enough sound intensity.

# LEADERSHIP AND COMMUNITY SERVICE

## **CAMBRIDGE INVENTORS CLUB | VOLUNTEER**

Jan 2016 - Present | Cambridge, MA

Work with children age 8-13 on engineering fundamentals, such as iterative design, retrospectives, and cooperation

## **BOSTON ULTIMATE DISK ALLIANCE | COACH**

March 2016 - Sept 2016 | Jamaica Plain, MA

First coach on new high school girls team, focused on empowering women in the Boston ultimate community

## **GIRLS WHO CODE | INSTRUCTOR**

Sept 2015 - June 2016 | Belmont, MA

Instructed three levels of middle- and high-school aged students from introduction to basic data structures. Supplemented given course materials with additional lesson plans to emphasize CS fundamentals.

## **WOMEN IN COMPUTER SCIENCE | PRESIDENT**

Jan 2013 - Jan 2015 | Somerville, MA

- Coordinated logistics of club hackathons, speakers, and outreach.
- Led executive board in creating WiCS mission and club constitution.

# EXTRACURRICULARS

## **AWARDS**

- Culture Award (First Recipient) | Jibo Inc. Award for outstanding cultural contributions to the company.
- Girl Scout Gold Award | Highest Honor of Girl Scouts of America

## **PUBLIC SPEAKING APPEARANCES**

- SXSW, Robot Petting Zoo (presentation & booth)
- Women Engineers who Code Conference, (technical workshop & imposter syndrome seminar)
- Lesbians Who Tech, presentation on emotional future of robotics
- Boston ML Meetup, presenter on Innovations in Human-Computer Interfaces
- MLHack Championships, (technical presentation & hackathon judge)
- Tufts WICS Conference, Alumni Panel

## **MEMBERSHIPS & ACTIVITIES**

### Current

- Cognitive Science Society
- Project Management and Leadership Book Group
- AI and Technological Futurism Book Group (Organizer)
- Div II Ultimate Frisbee (Captain)

### Former (Undergraduate)

- Vice President of Academic Development, Alpha Omicron Pi
- Tufts Mountain Club, Trip Coordinator
- Midnight Judges Jazz Combo

### Misc.

- 20+ countries visited
- WWOOF Worker (Germany)
- Avid century bike-rider and marathoner