

# Carolyn Saund

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## EDUCATION

### BSC COMPUTER SCIENCE, BRAIN AND COGNITIVE SCIENCE

TUFTS UNIVERSITY | SOMERVILLE,  
MA, USA

UNIVERSITY OF CANTERBURY |  
CHRISTCHURCH, NZ  
May 2015

### MSC RESEARCH METHODS IN PSYCHOLOGY

UNIVERSITY OF GLASGOW |  
GLASGOW, UK  
Sept 2019 (Expected)

## 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

## 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

#### PLATFORM TEAM LEAD

Jan 2018 - August 2018 | Boston MA

- Managed Agile team of 10 engineers
- Oversaw top-to-bottom implementation of three major user-facing features

#### SENIOR SOFTWARE DEVELOPER

August 2017 - Jan 2018 | 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

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

## **INVITED SPEAKING APPEARANCES**

- SXSW, Robot Petting Zoo, "Introducing: Jibo!"
- Women Engineers who Code Conference, "On Abstraction in API Design"
- Lesbians Who Tech, "The Future of Emotions in Robotics"
- Boston ML Meetup, "New Innovations in Human-Computer Interfaces"
- MLHack Championships, Technical Workshop, Judge
- Tufts WICS Conference, "Industry Post-Bachelors"

## **MEMBERSHIPS & ACTIVITIES**

### Current

- Cognitive Science Society
- Biologically Inspired Cognitive Architectures 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