# Michael James Murphy

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## Education

August 2017 Carnegie Mellon University, Pittsburgh, PA, QPA: 3.2.

Bachelors of Science in Computer Science, Minor in Music Technology

Selected Compiler Design, Machine Learning, Foundations of Programming Languages, Program Analy-

Coursework: sis, Probability and Computing, Production Audio, Electronic and Computer Music, Multitrack

Recording, Editing and Mastering, Solfege, Harmony, Eurythmics

## Skills

Languages: Python, JavaScript, HTML, OCaml, SML, C, Java, bash, LATEX

Libraries: Vue, Django, Bootstrap, Jane Street Core, ROS, Qt

Audio: Pro Tools, Finale, Reason, Logic

# Work Experience

August 2017 Embedded Software Consultant Engineer, Green Hills Software, Santa Barbara, CA.

- Present O Helping Green Hills customers with the GHS compiler, OS, IDE, and other products

Summer **Software Engineering Intern**, *WhatsApp*, Mountain View, CA.

2015 • Worked on the Windows Phone team implementing networking protocols and improving reliability

# Teaching Experience

Summer **Teaching Assistant**, Various Courses.

2014 - • 15-110 Principles of Computing: Summer 2014

Summer o 15-122 Principles of Imperative Computation: Fall 2014, Spring 2015, Summer 2016

2016 • 15-131 Great Practicals Ideas in Computer Science: Fall 2014, Fall 2015

o 15-150 Principles of Functional Programming: Summer 2016

Spring 2014 - Peer Tutor, CMU Academic Development, Pittsburgh, PA.

Spring 2017 • Assisted with homework and explained material from various courses on a weekly basis

# Research Projects (CORAL Research Group, Professor Manuela Veloso)

### Summer Robot UI.

2013 O Designed and coded a new UI for the CoBot mobile service robots using ROS

o Implemented in a linux touch interface using Python and Qt

### Summer Robot Log Explorer Site.

2014 o Implemented a script to parse log data from CoBot mobile service robots into a database

 Designed a website using this database to search logs across many categories including coordinates visited, and to display and graph the results

## Projects

Fall 2014 Adaptive Interval Tutor, ait.michaeljamesmurphy.com.

- Worked with three people to create a web app to train users' ear for musical intervals
- Designed a probabilistic intelligent tutoring system to add adaptive difficulty

## Activities

Fall 2015 - Sergeant at Arms and Second Vice President, CMU KGB Social Club.

Spring 2017 • Ran games and/or events (sometimes attended by 100+ people) for the org at least once a week

o Assisted with building a booth, maintaining website and server infrastructure, and ordering shirts