

# Ben Machlin

Computer Science Engineer

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## Education

- 2014–2018 **B.S. Computer Science (Expected)**, *Tufts University*, Medford, MA.  
3.36 / 4 GPA, Music Engineering Minor, Study Abroad: AIT Budapest
- 2018–2019 **M.S. Computer Science (Expected)**, *Tufts University*, Medford, MA.

## Experience

- Autumn 2017 **Computer Science Department**, *Teaching Assistant*, Tufts University.  
- Present Computation Theory
- Lead students in weekly recitations, work through examples, field questions and explain complex concepts in understandable terms
  - Grade assignments, hold office hours, and work one on one with students
- Summer 2017 **Human-Robot Interaction Lab**, *Researcher*, Tufts University.
- Worked with a small team in creating and carrying out research in the field of creative thinking in robot planning
  - Developed interface between AI Planning modules and larger robot action codebase
  - Implemented AI planning algorithms and robot action components
- Summer 2016 **World Wide Opportunities on Organic Farms**, *Farmhand / Aide*, New Zealand.
- Worked on farms and estates accomplishing various day-to-day tasks including animal care, plant care, construction, household chores, meal preparation, etc.
  - Learned horticultural, agricultural, and husbandry practices in a variety of different settings
- Summer 2015 **Synchronoss Technologies**, *AT&T Cloud, Quality Assurance Analyst*.
- Assisted in the development of an Android and iOS smartphone AT&T Cloud application for device backup. Deployed to millions of users.
  - Tested and analyzed the app in wide range of use cases

## Skills

- Languages Java, JavaScript, Python, C, C++, HTML, CSS, SQL, Prolog
- Software & Libraries Excel, Photoshop, Illustrator, LaTeX, Processing, Windows, Linux, git, Android Studio, Spotify API, Chartist, networkx, sklearn, NodeJS, Heroku, Jupyter, Ionic
- Relevant Courses Algorithms, Data Structures, Visualization, Data Mining, Mobile Dev. - Android, Database Systems, Web Development, Programming Languages, Complex Networks, Computation Theory, Music Engineering, Music Recording

## Interests

- Music Performance and Composition
- Ultimate Frisbee
- Generative/Visual Art
- Rock Climbing