# Tommy Tang

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## Education

**Stanford University**, Stanford, CA, M.S. in Computer Science, Expected Sep 2018 – May 2020
**Tufts University**, Medford, MA, Expected May 2018
Bachelor of Science in Computer Science, Minor in Economics
GPA:3.72    Major GPA:3.95    Dean's List: January 2015-Present

## Projects

**Harvard Square Homeless Shelter**, *Project Manager*, September 2017-Present
- Lead a team of 12 students in developing a mobile app for the HSHS using React Native and Firebase. It enables users to view and log interactions with guests, maintain a shared to-do list, and much more.
- Defined the project scope, designed features, planned architecture, and spearhead development.

**Red or Blue**, *Project Manager & Developer*, Nov 2017-Present, *https://redorbluegame.wixsite.com/redorblue*
- Design and build a 2D puzzle platformer in Unity where platforms, enemies and traps are either colored red or blue, and only one color is visible and can be interacted with at once.

**Microsoft Avatar**, June 2017-September 2017, *Project Manager & Front-End Developer*
*Finished Top 10 in the Millennials category at 2017 Microsoft Global Hackathon*
- Led a team of five in creating a style-transfer web app based on Deep Image Analogy, a neural network-based technique developed in-house. It enables users to create stylized digital avatars using any selfie.
- Planned the project from scratch and designed and implemented the front-end using React.

**MyDea**, September 2016-December 2016, *https://play.google.com/store/apps/details?id=com.tj.mydea*
- Created an Android app that lets users share ideas for projects they are interested in, which other users can view, comment, vote on, and join. Using Node.js and PostgreSQL for backend.

**In depth analysis of the Great Firewall of China**, September 2016-December 2016
- Undertook research project to study the censorship techniques of the GFW and potential countermeasures.
- Captured packets for experiment with help from GreatFire, world leading GFW research team.

## Work Experience

**GDC 2018**, San Francisco, CA, *Conference Associate*, March 2018

**Tufts University CS Department**, Medford, MA, *Teaching Assistant*, *20 hours/week*, September 2017-Present
- Perform TA duties for *Programming Languages*, *Algorithms*, *Security*, and *Web Programming*
- Lead recitations, hold office hours, grade coursework, and improve course contents.

**Microsoft Research**, Beijing, China, *Software Engineering Intern*, *Full-time*, June 2017-Septebmer 2017
*Received the "Star of Tomorrow" award of excellence*
- Created Microsoft Avatar as project manager and front-end engineer.
- Built parts of the front-end for an NLP tool commissioned by Pfizer that facilitates Q&A.
- Participated in the development of HoloPoint, PowerPoint for HoloLens using Unity.

**Anchiva Systems Ltd**, Beijing, China**, *Intern*, *Full-time*, June 2014-July 2014
- Shadowed a network security engineer to learn SQL injection, among other security vulnerabilities
- Performed penetration tests on client websites.

## Activities

**JumboCode**, Medford, MA, *Project Lead*, 12 hours/week, September 2016-Present
- Created multiple mobile apps on behalf of nonprofit organizations, using a variety of platforms and frameworks including Firebase, AngularJS, Ionic, and React Native.

**TEDxTufts**, Medford, MA, *Webmaster, Co-head of Sponsorship team*, 5 hours/week, September 2015-Present
- Maintain and update the TEDxTufts website built with Jekyll.
- Manage sponsors, speakers, and facilities to host the annual TED event at Tufts.

## Skills

- **Programming Languages**: C++, C, C#, JavaScript, Python, Java, ML, x86 Assembly Language, Matlab
- **Web**: HTML/CSS, React.js, React Native, AngularJS, Node.js, PostgreSQL, MongoDB, Firebase, Ionic
- **Tools**: Unity, Android Studio, Kali Linux Tools (incl. Wireshark, Nmap, etc.), Eclipse, Git
- **Other**: Fluent in Mandarin and conversational in Japanese.