

Tommy Tang

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Education

Stanford University, Stanford, CA, Master of Science in Computer Science, Expected Jun 2020

Tufts University, Medford, MA, May 2018

Graduated *magna cum laude* with B.S. in Computer Science, Minor in Economics GPA:3.69 Major GPA:3.95

Projects

Harvard Square Homeless Shelter App, *Project Manager*, Sep 2017-May 2018; *Advisor*, Sep 2018-present

- Led 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 spearheaded 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, Jun 2017-Sep 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, Sep 2016-Dec 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.
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Work Experience

iD Tech Camp, Harvard, MA, *Assistant Director, Full-time*, July 2018–Aug 2018

- Managed the day-to-day operations of a camp with 15 staffs and 120 students aged 7-17
- Taught a variety of game development, cybersecurity, and software engineering courses

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

Tufts University CS Department, Medford, MA, *Teaching Assistant, 20 hours/week*, Sep 2017-Jun 2018

- Performed TA duties for *Programming Languages*, *Algorithms*, *Security*, and *Web Programming*
- Led recitations, hold office hours, grade coursework, and improve course contents.

Microsoft Research, Beijing, China, *Software Engineering Intern, Full-time*, Jun 2017-Sep 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.
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Activities

JumboCode, Medford, MA, *Project Lead*, 12 hours/week, Sep 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, Sep 2015-May 2018

- Maintained and updated the TEDxTufts website built with Jekyll.
 - Managed sponsors, speakers, and facilities to host the annual TED event at Tufts.
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Skills

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

- **Current**: Principles of Computer Systems, Intro to Game Design, Intro to Computer Graphics and Imaging
- **Past Highlights**: Game Design (at Tufts), Senior Capstone, Programming Languages, Algorithms, Linear Algebra, Operating Systems, Mobile Development, Computer Systems Security, Web Programming, Machine Structure & Assembly, Data Structures, Engineering Leadership