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:3.98

Skills

- **Programming Languages**: **C++, C, JavaScript**, C#, Python, Java, ML, x86 Assembly Language
- **Web**: **HTML/CSS, React.js, React Native, Firebase,** Node.js, PostgreSQL, MongoDB
- **Tools**: **Unity, Android Studio, Git,** Kali Linux Tools (incl. Wireshark, Nmap, etc.), OpenGL

Projects

Red or Blue, *Project Manager & Developer*, Nov 2017-June 2018, *tinyurl.com/robgame*
Finalist for showcase at Boston Festival of Indie Games
- Designed and built 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.

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 using React Native, Redux 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.
- Introduced the project at a Hackathon inspired by our efforts: tinyurl.com/hshsintro

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, *tinyurl.com/mydeaapp*
- Created an Android app that lets users share ideas for projects, which other users can view, vote on, and join.

Work Experience

iD Tech Camp, Harvard, MA, *Assistant Director*, *Full-time*, July 2018–Aug 2018
- Managed the day-to-day operations of a STEM 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, held office hours, graded coursework, and improved 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 under Dr. Hon, director of MSRA
- Built significant 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.

Activities

Stanford Video Game Developers Association, Stanford, CA, *Officer*, 8 hours/week, Oct 2018-Present
- Organize weekly events such as game jams and tech talks for Stanford students interested in game dev.

JumboCode, Medford, MA, *Project Lead*, 12 hours/week, Sep 2016-Present
- Created multiple mobile apps on behalf of nonprofit organizations.

TEDxTufts, Medford, MA, *Head of Sponsorship team and Webmaster*, 5 hours/week, Sep 2015-May 2018
- Managed sponsors, speakers, and facilities to host the annual TED event with more than 300 audiences.

Relevant Coursework

- **Current**: Intro to Game Design, Intro to Computer Graphics and Imaging, Principles of Computer Systems
- **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