

Tony Peng

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Schooling Massachusetts Institute of Technology Class of 2019
Electrical Engineering and Computer Science (Course 6-2)

Recent Projects

Fast Neural Style - 2016 - <https://git.io/vyfuL>

- Open source implementation of *A Neural Algorithm of Artistic Style* by Gatys et al. and *Perceptual Losses for Real-Time Style Transfer* by Johnson et al using TensorFlow. Augmented the original architecture to achieve qualitatively better results.

Together - 2015 to 2016 - <https://goo.gl/BV3JvH>

- App for iOS and Android that makes it easy for friends to get together to hang out. Developed entire application full-stack with Lumen, PHP, and Postgres on AWS EC2 and S3 for the back-end, and Java and Swift for the mobile applications with a Flux architecture.

Kit for MIT CPW 2015 - 2015 - <https://goo.gl/VHX027>

- Created the official Android app for MIT Campus Preview Weekend 2015. Students could browse all CPW events, add them to their schedule, get reminders, and see lists of other pre-fresh attending events. Integrated with Facebook so students could easily friend each other.

Bloxel Voxel Engine - 2012 to 2014 - <http://tonypeng.com/projects?pid=2>

- Real-time voxel-based graphics engine allowing deformation of virtual environments. Implements *Dual Contouring of Hermite Data* by Ju et al. for smooth destructible terrain.

Work Experience

Instagram - Summer 2017

- Performed modeling and data science work on the Ads Delivery and Ranking team to improve model performance for serving feed and story ads.

Facebook Messenger - Summers 2015, 2016

- Developed full-stack web delivery receipts, disappearing messages, message attachments, other currently unreleased features, and various code optimizations and bug fixes for Messenger's 750M+ users.

Facebook - Summer 2014

- Worked full-stack on the Business Identity team to create management tools for Facebook's 3+ million advertising clients.

MIT Course 6 Lab Assistant - 2015 to 2017

- LA for 6.01 Fall 2015 and Spring 2016; 6.0001 and 6.009 Fall 2016; 6.042 Spring 2017.

Awards

USA Computing Olympiad Gold Division, Top 75 (2014)
DECA Entrepreneurial Written Plan Finalist, *Silicon Valley Career Development Conference 2015*;
Financial Services 3rd Place, *California State Career Development Conference 2015*; Financial Services Competitor, *International Career Development Conference 2015*
Model UN Outstanding Delegation, *Santa Clara Model UN 2014*

Technical Skills

Languages C#, Java, C/C++, PHP/Hack/HTML/Javascript, Python, SQL, Objective-C, Swift, Ruby
Frameworks TensorFlow, React, React Native, Laravel, Django, Ruby on Rails, XNA

Relevant Coursework

Machine Learning (6.867), Computer Vision (6.819), Multicore Programming (6.816), Design and Analysis of Algorithms (6.046), Mathematics for Computer Science (6.042), Computer Systems Engineering (6.033), Computation Structures (6.004), EECS, Software, and Control (6.01), Oral Communication (6.UAT), Linear Algebra (18.06), Microeconomics (14.01), Macroeconomics (14.02)