

Justin Jo

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Education

Tufts University – Medford, MA

May 2018

Bachelor of Science in Computer Engineering & Computer Science

GPA: 3.72

Technical Skills

Programming: C++, C, Python, PHP, JavaScript, HTML, CSS, XML, Arduino, MATLAB

Software: Unix, Git, Mercurial, Phabricator

Work Experience

Facebook

Menlo Park, CA

Software Engineering Intern - Internet.org

May 2017-Present

- Implementing in-feed promotions on mobile to connect cell carriers and users: PHP, XML, CSS
- Feature will impact over 25 million users in developing markets

Tufts University, Department of Computer Science

Medford, MA

Teaching Assistant – Algorithms

Jan 2017–Present

- Teach review sessions on algorithmic topics, including theta notation, amortization, and augmented trees
- Hold office hours for 100+ students

MultiSensor Scientific

Somerville, MA

Image Processing Intern

June 2016-Aug 2016

- Developed morphological noise-cleaning algorithms: MatLab, C
- Optimized noise-cleaning for an 80% runtime speedup
- Shipped real-time noise-cleaning as a core product feature

Projects

Land Mine Detecting Swarm Bots

Jan 2017-May 2017

Autonomous robots that detect and signal locations of mock land mines. Implemented features include path and obstacle detection, communication systems, and salsa dancing in pairs. Arduino, C

Logic Minimizer

April 2017

CAD tool used to process boolean logic functions and render their minimized forms. Python

Arith

Feb 2017-March 2017

Lossy image compression algorithm. Overall 1%-3% loss in quality after compression and decompression. C

PubNub Chatroom

Jan 2017

Basic chatroom built using PubNub's JavaScript V4 SDK. Automatically assigns user IDs and allows users to send personalized messages to a centralized chat. Includes automatic login/logoff messages. JavaScript

Relevant Courses

Algorithms, Data Structures, Microprocessor Architecture, Machine Structure, Discrete Mathematics, Probabilistic Systems Analysis, Digital Logic Systems, Linear Systems, Electronics I, Hyperspectral Imaging

Extracurricular Activities

Tufts Climbing Team, Korean Student Association, Tufts Turbo (breakdancing group)