Justin Jo

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Education

Tufts University – Medford, MA ***May 2018***
Bachelor of Science in Computer Engineering *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-Aug 2017*
- Implemented mobile newsfeed promotions to connect cell carriers and users: PHP, XML, CSS
- Architected and built framework to create and deploy customized promotions
- Launched feature to 100,000 users as an initial test run
- Feature will impact over 25 million users in developing markets

Tufts University, Department of Computer Science **Medford, MA**
Teaching Assistant – Algorithms *Jan 2017–May 2017*
- 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. 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)