Robert Taglang

3209 Powelton Avenue, Philadelphia, PA 19104

rht25@drexel.edu • (609) 489-2519 • https://github.com/lasalvavida

EDUCATION

Drexel University, Philadelphia, PA

Master of Science in Computer Engineering — Sep 2012 – Jun 2017

Bachelor of Science in Computer Engineering
- Cumulative GPA: 3.45

SKILLS

Programming: JavaScript, Node.js, C/C++, Java, Objective-C, Python
Software: MATLAB, Vivado, ModelSim, Xilinx SDK, Cadence Virtuoso, Adobe Photoshop
Source Control: Git, Mercurial, SVN, Perforce

RELEVANT EXPERIENCE

Analytical Graphics Inc., Exton, PA

Software Developer (3D/Web) — Mar 2016 – Present
- Develop a JavaScript optimization pipeline for glTF, the open standard for efficient 3D assets
- Contribute to the open-source Cesium virtual globe engine
- Contribute to the 3D Tiles open standard for streaming massive 3D datasets

Susquehanna International Group, Bala Cynwyd, PA

Software Engineering Co-op — Sep 2014 – Mar 2015
- Use C# and SQL to develop and maintain applications that manage live pricing feeds
- Improve accessibility by writing an ASP.NET and AJAX interface to retrieve pricing data
- Develop a code review platform that fits the team's workflow

Drexel University Applied Informatics Group, Philadelphia, PA

Research Engineer — Apr 2014 – Sep 2014
- Develop improvements for SISTO, a torrent and metadata system for mesh networks
- Deploy Python-Java wrapper, porting the system to Android
- Experiment with alternatives to mDNS for sharing metadata

Bentley Systems, Exton/Philadelphia, PA

Software Development Co-op — Sep 2013 – Mar 2014
- Implement algorithms to simulate 3-D object collision
- Write cross-platform API for mobile device sensors (GPS, Gyroscope)
- Develop in Java, C++, and Objective-C

Drexel University Applied Informatics Group, Philadelphia, PA

Research Engineer — Dec 2012 – Aug 2013
- Work with a team on XOP, a mesh network implementation of the XMPP chat protocol
- Port XOP to Android and embedded devices for field testing
- Assist in preparation of academic papers for conferences

ACADEMIC HONORS & AWARDS

Eagle Scout, Boy Scouts of America — 2012

Dean's List, Drexel University — Fall 2012, Summer 2015
- Maintain a term GPA above 3.6

AJ Drexel Scholarship, Drexel University — 2012 – 2017

AP Scholar with Distinction, The College Board — 2012

CAMPUS ACTIVITIES

Interfraternity Council, Drexel University

Vice President of Judicial Affairs — Jun 2015 – Dec 2015
- Oversee IFC Judicial Board for resolving allegations against twelve fraternities
- Maintain and draft modifications to the IFC bylaws

Beta Theta Chapter of Theta Chi Fraternity, Drexel University

Treasurer — Sep 2015 – Mar 2016
- Manage chapter funds and allocate expenses into a budget

Risk Manager — Sep 2014 – Sep 2015